D13-24

PENN-UNION

CONNECTORS and ACCESSORIES

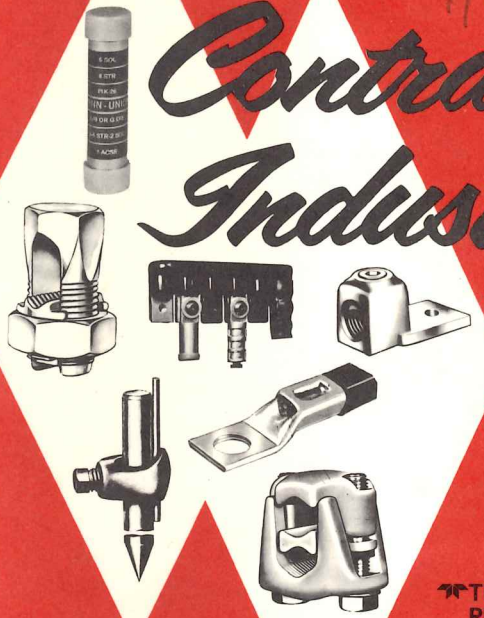
a good connection

D 2 to 1.A

Rec'd 1/17/73

Contractor-Industrial

CATALOG



TELEDYNE
PENN-UNION ELECTRIC

WATERFORD STREET P.O. BOX 723
EDINBORO, PENNSYLVANIA 16412
814 734-1631

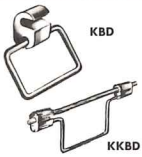
Sold exclusively through Electrical Distributors

CI-110 COMPACT POCKET EDITION

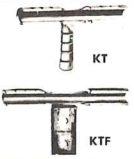
SELECTOR GUIDE OF OTHER CONNECTORS FOR UTILITY AND INDUSTRIAL APPLICATIONS

ALUMINUM COMPRESSION TAPS AND TEE CONNECTORS

KD
KO

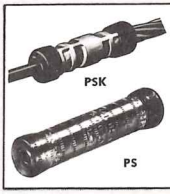

KBD
KKBD

PSKS & PSS


KT
KTF

KHTF

ALUMINUM COMPRESSION LUGS AND COUPLERS


PSK
PS

KHLU

PIK

KSL

BBLU
BCUA

ALUMINUM BOLTED TAP CONNECTORS

PA

PCA
ALC

AVT

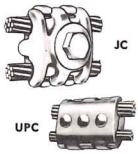
ADC

A2DC
A3DC

BRONZE BOLTED TAP CONNECTORS

S

VTA


JC
UPC

BDC

VX

UNDERGROUND FITTINGS

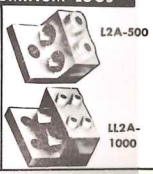
DBA

UGA

UTS

EXTRUDED ALUMINUM LUGS

LA-600
LLA-800


L2A-500
LL2A-1000

SEE YOUR ELECTRICAL DISTRIBUTOR FOR CATALOG INFORMATION ON ABOVE.

Electrical Connectors

AND

Accessories

Contractor-Industrial

CATALOG

PENN-UNION
a good connection

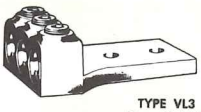
KINDLY CONTACT

TELEDYNE
PENN-UNION ELECTRIC

WATERFORD STREET P.O. BOX 723
EDINBORO, PENNSYLVANIA 16412
814 734-1631

Pictorial Index

CONTRACTOR-INDUSTRIAL

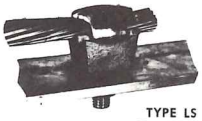


TYPE VL3
Page H-14.2

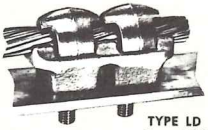
TYPE SL
Page 14.3

TYPE SL-2
Page H-14.4

TYPE SLU
Page H-15

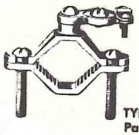


TYPE LS
Page H-32

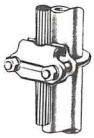


TYPE LD
Page H-33

TYPE CAB
Page I-5

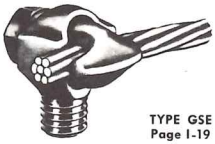


TYPE KW
Page I-7



TYPE GPL
Page I-9

TYPE GM
Page I-16

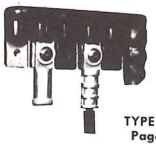


TYPE GSE
Page I-19

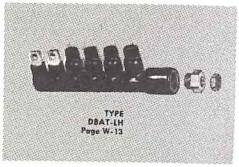
TYPE FXB
Page Q-4

TYPE SCS
Page V-5

TERMINAL BLOCKS
Pages V-7 thru V-10



TYPE DBA
Page W-4



TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Silicon Bronze

SPLIT BOLT CONNECTORS

TYPES S and SEL

For Copper and Copperweld Wires

TYPE S for 2 Wires

Made from high strength silicon bronze—highly resistant to corrosion and season cracking. The design provides, under torque, high contact pressure between conductors. The Penn-Union pressure bar is unexcelled—special designed protuberances give assurance of high "pull-out." Manufactured in accordance with NEMA Standards.

TYPE SEL for 3 Wires

Catalog Number	COPPER CONDUCTOR			MAXIMUM CONDUCTOR			Std. Pkg.	Wt. Per 100	DIMENSIONS IN INCHES		
	Range of Equal Main and Tap		Min. Tap With One Max. Main.	Amerductor Type SCP	COPPERWELD						
	Min.	Max.			Str.	Type A			A	B	C
S-10-S	16 Str.	10 Str.	16 Str.	—	—	—	100	2	.122	5/16	5/16
SEL-10-S*	16 Str.	10 Str.	16 Str.	—	—	—	100	3	.122	1 1/32	1/2
S-8-S	12 Sol.	8 Str.	16 Str.	—	—	—	100	3	.152	3/8	1/2
SEL-8-S*	12 Sol.	8 Str.	16 Str.	—	—	—	100	3 1/2	.143	3/8	1/2
S-6-S	10 Sol.	6 Sol.	16 Str.	—	—	—	100	5 1/2	.165	7/16	5/8
SEL-6-S*	10 Sol.	6 Sol.	16 Str.	—	—	—	100	6	.165	7/16	5/8
S-4-S	8 Sol.	4 Sol.	16 Str.	8X	3 No. 12	8A	100	7	.215	1/2	11/16
SEL-4-S*	8 Sol.	4 Sol.	16 Str.	8X	3 No. 12	8A	100	8	.215	1/2	11/16
S-3-S	6 Sol.	2 Sol.	16 Str.	6	3 No. 9	5A	100	9 1/2	.264	9/16	3/4
SEL-3-S*	6 Sol.	2 Sol.	16 Str.	6	3 No. 9	5A	100	10 1/2	.264	9/16	3/4
S-2-S	6 Sol.	2 Str.	14 Str.	4	3 No. 7	3A	100	13	.328	5/8	13/16
SEL-2-S*	6 Sol.	2 Str.	14 Str.	4	3 No. 7	3A	100	15	.328	5/8	13/16
S-1/0-S	4 Sol.	1/0 Str.	14 Sol.	—	3 No. 6	2A	50	19	.377	11/16	7/8
S-2/0-S	2 Sol.	2/0 Str.	14 Str.	2	3 No. 5	—	25	30	.418	3/4	1
S-3/0-S	2 Sol.	3/0 Str.	12 Sol.	—	7 No. 7	—	25	37	.468	7/8	1 1/8
S-4/0-250-S	1/0 Sol.	250 MCM	8 Sol.	—	7 No. 5	—	25	50	.580	1	1 5/16
S-350-S	4/0 Str.	350 MCM	8 Sol.	—	19 No. 7	—	1	77	.746	1 1/2	1 5/8
S-500-S	250 MCM	500 MCM	8 Sol.	—	19 No. 6	—	1	90	.834	1 3/4	1 13/16
S-750-S	350 MCM	750 MCM	8 Sol.	—	19 No. 5	—	1	176	1.028	1 13/16	2 1/8
S-1000-S	500 MCM	1000 MCM	8 Sol.	—	—	—	1	280	1.222	2 1/4	2 1/2

*Type SEL for 3 Wires.

TYPE SW
ELECTRO-TIN PLATED BOLT, NUT, SPACER AND PRESSURE BAR

For Copper to Copper, Copper to Aluminum, Aluminum to Aluminum, Steel to Copper and Steel to Aluminum

Made from high strength silicon bronze—highly resistant to corrosion and season cracking. The design provides, under torque, high contact pressure between conductors. The Penn-Union pressure bar is unexcelled—special designed protuberances give assurance of high "pull-out." Manufactured in accordance with NEMA Standards.

We recommend using Penn-Union "Cual-Aid," an oxide inhibiting compound, with this Connector.

Catalog Number	COPPER AND ALUMINUM			ACSR		MAXIMUM CONDUCTORS				Std. Pkg.	Shpg. Wt. Lbs. Per 100
	Range of Equal Main and Tap		Min. Tap With One Max. Main	Range of Main or Tap		Guy Str.	Amerductor Types SCP & SCG	Copperweld			
	Min.	Max.		Min.	Max.			Str.	Type A		
SW- 1	16 Str.	10 Str.	16 Str.	—	—	1/8"	—	—	—	100	4
SW- 2	16 Str.	8 Str.	16 Str.	—	—	—	—	—	—	100	4
SW- 3	12 Str.	6 Sol.	14 Str.	—	—	5/32"	—	—	—	100	7
SW- 4	10 Str.	4 Sol.	10 Sol.	—	6	5/32"	8X	3 No. 12	8A	100	8
SW- 5	8 Str.	2 Sol.	10 Sol.	6	4	1/4"	6	3 No. 9	5A	100	11
SW- 6	8 Sol.	2 Str.	8 Sol.	6	2	5/16"	4	3 No. 7	3A	100	15
SW- 7	6 Sol.	1/0 Str.	10 Sol.	6	1	3/8"	4	3 No. 6	2A	50	21
SW- 8	6 Str.	2/0 Str.	10 Sol.	6	1/0	3/8"	2	3 No. 5	—	25	42
SW- 9A	4 Str.	3/0 Str.	6 Sol.	6	2/0	7/16"	—	7 No. 7	—	25	48
SW-10	4 Str.	250 MCM	4 Str.	4	4/0	9/16"	—	7 No. 5	—	25	90
SW-11	3/0 Str.	350 MCM	1 Sol.	2/0	350	21/32"	—	19 No. 7	—	10	130
SW-12	3/0 Str.	500 MCM	1/0 Str.	2/0	477 18/1	—	—	19 No. 6	—	10	151
SW-13	250 MCM	750 MCM	2/0 Str.	4/0	666.6	—	—	19 No. 5	—	10	198
SW-14	350 MCM	1000 MCM	4/0 Str.	300	900	—	—	—	—	10	309

SPLIT BOLT CONNECTORS

TYPE PA

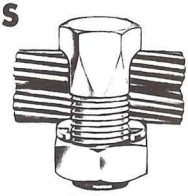
HIGH STRENGTH ALUMINUM BOLT, NUT AND PRESSURE BAR.

For Aluminum to Aluminum Cables

Can also be used on AMERDUCTOR and STEEL Wires

We recommend using Penn-Union "Cual-Aid", an oxide inhibiting compound, with this Connector.

Catalog Number	MAXIMUM CABLE SIZES		Std. Pkg.	Shpg. Wt. Lbs. Per 100	DIMENSIONS In Inches		
	ACSR.	Str. Aluminum			A	B	C
PA-1	4	3	100	5	.266	5/8	13/16
PA-2	2	1	100	6	.328	11/16	7/8
PA-3	1	1 & 1/0	50	9	.378	13/16	1
PA-4	1/0	2/0	25	18	.435	7/8	1 1/8
PA-5	4/0	250	25	24	.580	1 5/16	1 1/2



BOLT, NUT AND ONE BELL-MOUTHED WASHER MADE FROM HIGH STRENGTH ALUMINUM.

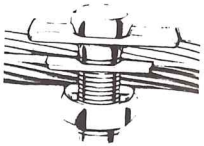
TYPE PAC

For Aluminum to Copper Wires

CENTER WASHER BI-METALLIC ALUMINUM-COPPER
PRESSURE BAR PLATED COPPER

We recommend using Penn-Union "Cual-Aid", an oxide inhibiting compound, with this Connector.

Catalog Number	MAXIMUM CABLE SIZES			Std. Pkg.	Shpg. Wt. Lbs. Per 100	DIMENSIONS In Inches		
	ACSR.	Str. Aluminum	Copper Tap			A	B	C
PAC-1	4	3	2 Solid	100	6	.266	5/8	13/16
PAC-2	2	1	2 Stranded	100	7	.328	11/16	7/8
PAC-3	1	1 & 1/0	1/0 Stranded	50	10	.378	13/16	1
PAC-4	1/0	2/0	2/0 Stranded	25	20	.435	7/8	1 1/8
PAC-5	4/0	250	250 Stranded	25	27	.580	1 5/16	1 1/2



TYPE PAE

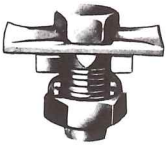
BOLT, NUT AND ONE BELL-MOUTHED WASHER MADE FROM HIGH STRENGTH ALUMINUM.

EXTRUDED CENTER WASHER AND PRESSURE BAR PLATED COPPER

For Aluminum to Copper Wires

We recommend using Penn-Union "Cual-Aid", an oxide inhibiting compound, with this Connector.

Catalog Number	MAXIMUM CABLE SIZES			Std. Pkg.	Shpg. Wt. Lbs. Per 100	DIMENSIONS In Inches		
	ACSR.	Str. Aluminum	Copper Tap			A	B	C
PAE-1	4	3	2 Solid	100	6	.266	5/8	13/16
PAE-2	2	1	2 Stranded	100	7	.328	11/16	7/8
PAE-3	1	1 & 1/0	1/0 Stranded	50	10	.378	13/16	1
PAE-4	1/0	2/0	2/0 Stranded	25	20	.435	7/8	1 1/8
PAE-5	4/0	250	250 Stranded	25	27	.580	1 5/16	1 1/2



TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper

SERVICE ENTRANCE CONNECTORS

TYPE SX

For Copper Wire or Cable

Body is made from cold drawn copper extrusions. Slotted silicon bronze screws provides ease in installation—with screwdriver or pliers. Type SX makes a secure, low resistance joint which is easy to tape.

Catalog Number	Maximum Wire Size	Shipping Weight Pounds Per 100	Number Per Carton
SX-12	12 Stranded	1	200
SX-10-8	8 or 10 Stranded	2	100
SX-6	6 Stranded	3	100
SX-4	4 Stranded	4	100
SX-2	2 Stranded	6	100

Bronze

SERVICE ENTRANCE CONNECTORS

TYPE SAX and SEX

Electro-Tin Plated with Spacer

For Copper or Aluminum Wire or Cable

Made from high strength hex bronze rod—slotted silicon bronze screws. Spacer is manufactured from high conductivity copper. Entire connector, including screw, is tin-plated to prevent galvanic corrosion.

We recommend using Penn-Union "Cual-Aid", an oxide inhibiting compound, when connecting aluminum cable.

Catalog Number	MAXIMUM CONDUCTOR					Shipping Weight Pounds Per 100	Number Per Carton
	Aluminum		ACSR.	Copper			
	Solid	Stranded		Solid	Stranded		
SAX-12-8	12	8	..	12	8	3	100
SAX- 6	5	6	8	5	6	4	100
SAX- 4	2	3	4	2	3	5	100
SAX- 2	1	2	3	1	2	7	100

If unplated connector without spacer is desired, change "A" in catalog number to "E". For example: SAX-2 to SEX-2.

For sizes not listed, please refer to factory.

Aluminum
PARALLEL CLAMP
(EXTRUDED)
TYPE PCAA
One Center Bolt and Multiple Center Bolt

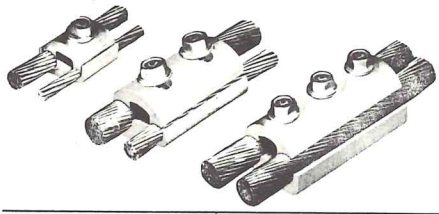
Heavy Duty Service Entrance. Light and Heavy Duty Distribution Armor Rod Clamps.

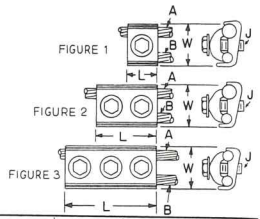
High strength aluminum extruded alloy fittings assembled with hot-dipped galvanized steel or Alumilite finished high strength aluminum bolts, and high strength aluminum flat washers.

Efficient center bolt clamping with full water-shed, massive cable coverage.

Serrated grooves provide increased contact and cleaning action.

The clamp is chemically cleaned and coated to prevent future formations of oxides.





CATALOG NUMBER		Fig. No.	CONDUCTOR RANGE AWG and ACSR and AR*		L	W	J Dia.
Aluminum Hardware	Steel Hardware		A Main Min. — Max.	B Tap Min. — Max.			
PCAA-10	PCAA-10S	1	6 Sol.—1/0 Str. #6—1/0 ACSR	6 Sol.—1/0 Str. #6—1/0 ACSR	1 5/16"	1 7/16"	3/8"
PCAA-15	PCAA-15S	1	6 Sol.—2/0 Str. #6—2/0 ACSR #6 Str. AR	6 Sol.—2/0 Str. #6—2/0 ACSR #6 Str. AR	1 3/8"	1 11/16"	3/8"
PCAA-17	PCAA-17S	1	2 Sol.—4/0 Str. #4—3/0 ACSR #6—4 Str. AR	2 Sol.—4/0 Str. #4—3/0 ACSR #6—4 Str. AR	1 1/2"	1 15/16"	3/8"
PCAA-18	PCAA-18S	2	2 Sol.—4/0 Str. #4—3/0 ACSR #6—4 Str. AR	2 Sol.—4/0 Str. #4—3/0 ACSR #6—4 Str. AR	3"	1 15/16"	3/8"
PCAA-20	PCAA-20S	1	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	6 Sol.—2/0 Str. #6—2/0 ACSR #6 Str. AR	1 3/4"	2 3/16"	1/2"
PCAA-23	PCAA-23S	2	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	3 3/8"	2 15/32"	1/2"
PCAA-25	PCAA-25S	3	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	5 1/4"	2 15/32"	1/2"
PCAA-27	PCAA-27S	1	400—1000 MCM 397.5 18/1—795 ACSR 3/0 Str.—397.5 AR	6 Sol.—2/0 Str. #6—2/0 ACSR #6 Str. AR	2 1/4"	2 13/16"	5/8"
PCAA-30	PCAA-30S	2	400—1000 MCM 397.5 18/1—795 ACSR 3/0 Str.—397.5 AR	3/0 Str.—400 MCM 3/0—397.5 18/1 ACSR #4 Str.—2/0 Str. AR	4 1/2"	3 1/8"	5/8"
PCAA-35	PCAA-35S	3	400—1000 MCM 397.5 18/1—795 ACSR 3/0 Str.—397.5 AR	400—1000 MCM 397.5 18/1—795 ACSR 3/0 Str.—397.5 AR	6 3/4"	3 1/2"	5/8"

*All aluminum cable rating with Preformed Armor Rods. Add suffix "BF" to catalog number for prefilling with CUAL-AID and bagging.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum

PARALLEL TAP CONNECTORS

TYPE GTA

ELECTRO TIN PLATED

Catalog No.	Wire Range AWG or MCM		Fig. No.	Height	Width	Length
	Main	Tap				
GTA 2-4	2-12 Str.	4-14	1	1	1-1/8	9/16
GTA 0-0	1/0-2	1/0-14	1	1-1/8	1-7/16	3/4
GTA 250-0	250-1/0	1/0-14	1	1-7/16	2	7/8
GTA 250-250	250-1/0	250-6	1	1-7/16	2	7/8
GTA 350-0	350-4/0	1/0-14	1	1-11/16	2-5/16	1
GTA 350-350	350-4/0	350-6	1	1-11/16	2-5/16	1
GTA 500-0	500-350	1/0-14	1	2	2-13/16	1-1/4
GTA 500-500	500-350	500-2	1	2	2-13/16	1-1/4
GTA 750-0	750-500	1/0-14	1	2-7/16	3-3/8	1-1/4
GTA 750-500	750-500	500-2	1	2-7/16	3-3/8	1-1/4
GTA 750-750	750-500	750-1/0	2	2-7/16	3-3/8	2-3/8
GTA 1000-0	1000-750	1/0-14	1	2-7/16	3-3/8	1-1/4
GTA 1000-500	1000-750	500-2	1	2-7/16	3-3/8	1-1/4

Fig. 1

Fig. 2

INSULATING COVERS

TYPE GTC

Catalog No.	Height	Width	Length
GTC 2	1-1/4	1-13/16	2-1/4
GTC 0	1-1/4	2-3/32	2-1/2
GTC 250-350	2	2-15/16	3-59/64
GTC 500	2-23/64	2-57/64	4
GTC 750-500	2-3/4	3-1/2	4-3/4

GTC-0 COVERS USED ON	GTC-2 COVERS USED ON	GTC 250-350 COVERS USED ON		GTC 500 COVERS USED ON	GTC 750-500 COVERS USED ON
GTA 0-0	GTA 2-4	GTA 250-0	GTA 350-0	GTA 500-0	GTA 750-0
GTT 0-0	GTT 2-4	GTA 250-250	GTA 350-350	GTT 500-0	GTA 750-500
		GTT 250-0	GTT 350-0	GTA 500-500	GTT 750-0
		GTT 250-250	GTT 350-350	GTT 500-500	GTT 750-500

Aluminum

TEE TAP CONNECTORS

TYPE GTT

ELECTRO TIN PLATED

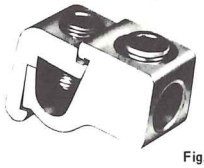


Fig. 1

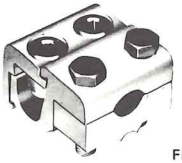


Fig. 2

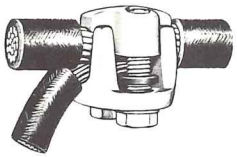
Catalog No.	Wire Range AWG or MCM		Fig. No.	Height	Width	Length
	Main	Tap				
GTT 2-4	2-12 Str.	4-14	1	1	1-1/4	9/16
GTT 0-0	1/0-2	1/0-14	1	1-1/8	1-9/16	3/4
GTT 250-0	250-1/0	1/0-14	1	1-7/16	2	7/8
GTT 250-250	250-1/0	250-6	1	1-7/16	2-1/8	7/8
GTT 350-0	350-4/0	1/0-14	1	1-11/16	2-5/16	1
GTT 350-350	350-4/0	350-6	1	1-11/16	2-7/16	1
GTT 500-0	500-350	1/0-14	1	2	2-13/16	1-1/4
GTT 500-500	500-350	500-2	1	2	2-15/16	1-1/4
GTT 750-0	750-500	1/0-14	1	2-7/16	3-3/8	1-1/4
GTT 750-500	750-500	500-2	1	2-7/16	3-3/8	1-1/4
GTT 750-750	750-500	750-600	2	2-7/16	3-3/8	2-3/8
GTT 1000-0	1000-750	1/0-14	1	2-7/16	3-3/8	1-1/4
GTT 1000-500	1000-750	500-2	1	2-7/16	3-3/8	1-1/4
GTT 1000-1000	1000-750	1000-600	2	2-7/16	3-3/8	2-3/8

FOR GTC INSULATING COVERS See Page C-14

Bronze
PENN-TAPS

TYPES VT & VTW

For Copper Conductors



Designed for heavy-duty service connections. The cap swivels to permit quick and easy installation of conductors. Retaining rubber washer eliminates loose parts. Made from high strength bronze castings—assurance against stress corrosion and season cracking. Hardware—Silicon Bronze Bolts and Lockwashers.

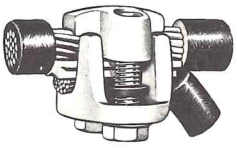
CATALOG NUMBER		CONDUCTOR RANGE				Std. Pkg.	Shipping Wt. Lbs. Per 100
		Minimum		Maximum			
Without Spacer	With Spacer	Run	Tap	Run	Tap		
VT-0	VTW-0	1 Str.	10 Str.	1/0 Str.	1/0 Str.	25	35
VT-1	VTW-1	2 Str.	10 Str.	2/0 Str.	2/0 Str.	25	45
VT-2	VTW-2	1/0 Str.	10 Str.	4/0 Str.	4/0 Str.	25	65
VT-3	VTW-3	250 MCM	10 Str.	350 MCM	350 MCM	12	115
VT-4	VTW-4	400 MCM	10 Str.	500 MCM	500 MCM	12	125
VT-5	VTW-5	400 MCM	3/0 Str.	800 MCM	800 MCM	6	215
VT-6	VTW-6	500 MCM	3/0 Str.	1000 MCM	1000 MCM	6	325

If desired tin plated, suffix catalog number with "TN", for example: VT-1-*TN*.
If desired tin plated, see type VTA listed below.

PLATED PENN-TAP

TYPE VTA

For Copper, Aluminum, and Steel



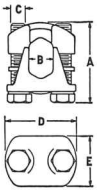
Made from high strength bronze castings with high conductivity spacer bar. All parts are tin plated.

Clamps at least two maximum conductors of copper, copperweld, aluminum, steel or any of these conductors in combination. If used with aluminum, we recommend using Penn-Union "Cual-Aid®", an oxide inhibiting compound, with this connector.

Catalog Number	MAXIMUM CONDUCTORS						Std. Pkg.	Shpg. Wt. Lbs. Per 100
	Copper		Copper-weld	Aluminum		Steel Nom. Dia.		
	Solid	Str.	Solid	Awg.	Acsr.			
VTA-0	2/0	1/0	2/0	1/0 Str.	1	3/8"	25	40
VTA-1	3/0	2/0	3/0	2/0 Str.	1/0	7/16"	25	50
VTA-2	4/0	4/0	4/0	4/0 Str.	3/0	1/2"	25	70
VTA-3	...	350 MCM	...	350 MCM	300 MCM	5/8"	12	120
VTA-4	...	500 MCM	...	500 MCM	397.5 MCM	3/4"	12	135
VTA-5	...	800 MCM	...	800 MCM	715.5 MCM	1"	6	225
VTA-6	...	1000 MCM	...	1000 MCM	900 MCM	1 1/8"	6	340

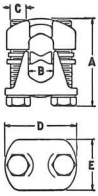
If no spacer bar is required, see type VTW above.

Type VT



GENERAL DIMENSIONS IN INCHES

Catalog Number	A	Catalog Number	A	B	C	D	E
VT-0	1 1/2	VTA-0	1 5/8	13/32	3/16	1 3/16	15/16
VT-1	1 3/4	VTA-1	1 7/8	1/2	3/16	1 3/8	1 1/8
VT-2	2 1/8	VTA-2	2 1/8	27/32	3/8	1 27/32	1 9/32
VT-3	2 11/16	VTA-3	2 7/8	3/4	1/2	2 3/16	1 5/8
VT-4	3	VTA-4	3 1/4	7/8	1/2	2 1/2	1 11/16
VT-5	3 7/16	VTA-5	3 11/16	1 1/16	1/2	2 3/4	1 7/8
VT-6	4	VTA-6	4 1/4	1 1/4	5/8	3 3/16	2 1/4



Type VTA

Distribution Specialties

"CUAL-AID"

A Contact Compound for All Electrical Connections

Wide Temperature Range.

Remains smooth and easy-working even at very low temperatures.

Easy to wash off hands and clothes with a detergent.

Will not wash off from exposure to the elements.

Accelerated, intense testing under exposure to intense sunlight and oxygen concentration shows no effect.

Excellent electrically as a contact aid.

Cual-Aid #7

A general purpose petroleum base electrical joint compound to produce and maintain good electrical connections. For use in any bolted connection.

Cual-Aid #8

Similar to #7 except the addition of suspended particles makes it especially suitable for compression connectors. Not for use on threads of bolted connectors.

Cual-Aid #11

The highest quality general purpose synthetic base electrical joint compound for bolted connections. This compound has superior compatability with insulating materials.

Cual-Aid #12

Similar to #11 except the addition of suspended particles makes it especially suitable for compression connectors. Not for use on threads of bolted connectors.

Catalog Number	Quantity Volume	Container	Standard Package
Cual-Aid Flask	½ Pint	Plastic Flask	20
Cual-Aid Pt.	Pint	Pint Can	12
Cual-Aid Qt.	Quart	Quart Can	9
Cual-Aid G	Gallon	Gallon Can	4
Cual-Aid 5G	5 Gallon	5 Gallon Can	1

The application of "CUAL-AID" is recommended on:

CONNECTOR: Smear compound into connector grooves. DO NOT wire-brush the grooves of plated or grease-coated connectors. These are especially treated at the factory to stay free from oxide.

CABLE: Wire brush "Cual-Aid" into the strands of aluminum cable. This removes oxide coating from the strands, and prevents it from re-forming.

BAR: Wire-brush "Cual-Aid" across the surface of bar. This removes oxide coating from the surface and prevents it from re-forming.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper
PENN-CRIMPS
SERVICE KITS

Catalog Page F-6
(Wire Sizes #22 thru #10)

Type KIT-N (non-insulated)

Terminals are made from pure copper and tin plated for corrosion resistance. Open-end construction permits easy examination of crimped joint. Terminals supplied with vinyl insulation are color coded for ease of selection (red, 22-16; blue, 16-14; yellow, 12-10). Each kit is supplied with a single tool that crimps both bare and insulated terminals.

Type KIT-V (insulated)

KIT-N
(WITH TOOL)

KIT-N-3
(WITHOUT TOOL)

CAP-6 Wire Size: (A) #18-(2) #12 Pigtail Splice Quantity: 60	B2AB Wire Size: 22-16 Butt Splice Quantity: 20	B2BB Wire Size: 16-14 Butt Splice Quantity: 20	B2CB Wire Size: 12-10 Butt Splice Quantity: 15	S2A-10 Wire Size: 22-18 Stud Size: #10 Quantity: 25	BS2A-10 Wire Size: 22-18 Stud Size: #10 Quantity: 25
CAP-11 Wire Size: (3) #12-(2) #6 Pigtail Splice Quantity: 20	R2A-10 Wire Size: 22-18 Stud Size: #10 Quantity: 25	R2B-10 Wire Size: 16-14 Stud Size: #10 Quantity: 25	R2C-10 Wire Size: 12-10 Stud Size: #10 Quantity: 20	S2B-10 Wire Size: 16-14 Stud Size: #10 Quantity: 25	BS2B-10 Wire Size: 16-14 Stud Size: #10 Quantity: 25
FRIB-250 Wire Size: 18-14 Quantity: 25	FRIE-250 Wire Size: 12-8 Quantity: 25	MIB-250 Wire Size: 18-14 Quantity: 20	MIE-250 Wire Size: 12-8 Quantity: 20		
TMP-3 TOOL					

KIT-V
(WITH TOOL)

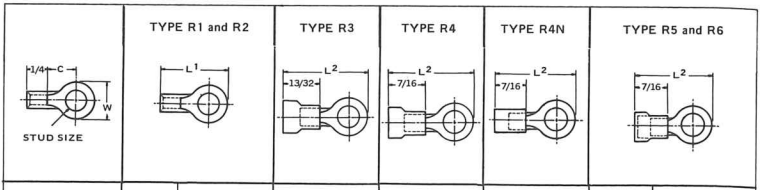
KIT-V-3
(WITHOUT TOOL)

NPAB Clear Wire Size: 22-14 Pigtail Splice Quantity: 25	R4A-10B Red Wire Size: 22-18 Stud Size: #10 Quantity: 20	R4B-10B Blue Wire Size: 16-14 Stud Size: #10 Quantity: 20	R4C-10B Yellow Wire Size: 12-10 Stud Size: #10 Quantity: 15	H4A-10B Red Wire Size: 22-18 Stud Size: #10 Quantity: 20	B4AB Red Wire Size 22-18 Butt Splice Quantity: 15
NPBC Clear Wire Size: 18-10 Pigtail Splice Quantity: 15	S4A-10B Red Wire Size: 22-18 Stud Size: #10 Quantity: 20	S4B-10B Blue Wire Size: 16-14 Stud Size: #10 Quantity: 20	S4C-10B Yellow Wire Size: 12-10 Stud Size: #10 Quantity: 15	H4B-10B Blue Wire Size: 16-14 Stud Size: #10 Quantity: 20	B4BB Blue Wire Size 16-14 Butt Splice Quantity: 15
FR4B-250 Wire Size 18-14 Quantity: 20	FR4E-250 Wire Size: 12-8 Quantity: 20	M4B-250 Wire Size 18-14 Quantity: 15	M4E-250 Wire Size: 12-8 Quantity: 15		
TMP-3 TOOL					

Copper PENN-CRIMPS

STANDARD BARREL — RING TERMINALS

Made of pure electrolytic copper-annealed. Electro-tin plated for corrosion. Internal serrations firmly grip wire strands, assuring maximum tensile strength. Inspection hole permits easy examination of crimped joint.



STANDARD BARREL BASIC DIMENSIONS	TYPE R1 and R2		TYPE R3	TYPE R4	TYPE R4N	TYPE R5 and R6	
	BUTTED SEAM	BRAZED BARREL	BRASS SLEEVE	BRAZED BARREL VINYL INSULATION	BRAZED BARREL NYLON INSULATION	BRASS SLEEVE VINYL Insulation	BRASS SLEEVE NYLON Insulation

22—18 WIRE .030 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.135 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	17/64	7/32	R1A-6S	R2A-6S	39/64	R3A-6S	3/4	R4A-6SB	23/32	R4NA-6SB	23/32	R5A-6S	R6A-6S	23/32
4-6	11/32	1/4	R1A-6	R2A-6	11/16	R3A-6	27/32	R4A-6B	7/8	R4NA-6B	7/8	R5A-6	R6A-6	7/8
8	11/32	1/4	R1A-8	R2A-8	11/16	R3A-8	27/32	R4A-8B	7/8	R4NA-8B	7/8	R5A-8	R6A-8	7/8
10	11/32	1/4	R1A-10	R2A-10	11/16	R3A-10	27/32	R4A-10B	7/8	R4NA-10B	7/8	R5A-10	R6A-10	7/8
1/4	13/32	25/64	R1A-14S	R2A-14S	13/16	R3A-14S	15/16	R4A-14SB	31/32	R4NA-14SB	31/32	R5A-14S	R6A-14S	31/32
1/4	9/16	25/64	R1A-14	R2A-14	55/64	R3A-14	63/64	R4A-14B	1 1/64	R4NA-14B	1 1/64	R5A-14	R6A-14	1 1/64
5/16	13/32	25/64	R1A-56S	R2A-56S	13/16	R3A-56S	15/16	R4A-56SB	31/32	R4NA-56SB	31/32	R5A-56S	R6A-56S	31/32
5/16	9/16	25/64	R1A-56	R2A-56	55/64	R3A-56	63/64	R4A-56B	1 1/64	R4NA-56B	1 1/64	R5A-56	R6A-56	1 1/64
3/8	13/32	25/64	R1A-38S	R2A-38S	13/16	R3A-38S	15/16	R4A-38SB	31/32	R4NA-38SB	31/32	R5A-38S	R6A-38S	31/32
3/8	9/16	25/64	R1A-38	R2A-38	55/64	R3A-38	63/64	R4A-38B	1 1/64	R4NA-38B	1 1/64	R5A-38	R6A-38	1 1/64

16—14 WIRE .030 STOCK

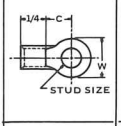
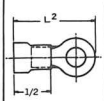
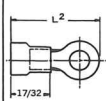
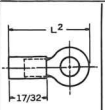
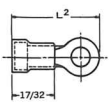
Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.155 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	17/64	7/32	R1B-6S	R2B-6S	39/64	R3B-6S	3/4	R4B-6SB	23/32	R4NB-6SB	23/32	R5B-6S	R6B-6S	23/32
4-6	11/32	1/4	R1B-6	R2B-6	11/16	R3B-6	27/32	R4B-6B	7/8	R4NB-6B	7/8	R5B-6	R6B-6	7/8
8	11/32	1/4	R1B-8	R2B-8	11/16	R3B-8	27/32	R4B-8B	7/8	R4NB-8B	7/8	R5B-8	R6B-8	7/8
10	11/32	1/4	R1B-10	R2B-10	11/16	R3B-10	27/32	R4B-10B	7/8	R4NB-10B	7/8	R5B-10	R6B-10	7/8
1/4	13/32	25/64	R1B-14S	R2B-14S	13/16	R3B-14S	15/16	R4B-14SB	31/32	R4NB-14SB	31/32	R5B-14S	R6B-14S	31/32
1/4	9/16	25/64	R1B-14	R2B-14	55/64	R3B-14	63/64	R4B-14B	1 1/64	R4NB-14B	1 1/64	R5B-14	R6B-14	1 1/64
5/16	13/32	25/64	R1B-56S	R2B-56S	13/16	R2B-56S	15/16	R4B-56SB	31/32	R4NB-56SB	31/32	R5B-56S	R6B-56S	31/32
5/16	9/16	25/64	R1B-56	R2B-56	55/64	R3B-56	63/64	R4B-56B	1 1/64	R4NB-56B	1 1/64	R5B-56	R6B-56	1 1/64
3/8	13/32	25/64	R1B-38S	R2B-38S	13/16	R3B-38S	15/16	R4B-38SB	31/32	R4NB-38SB	31/32	R5B-38S	R6B-38S	31/32
3/8	9/16	25/64	R1B-38	R2B-38	55/64	R3B-38	63/64	R4B-38B	1 1/64	R4NB-38B	1 1/64	R5B-38	R6B-38	1 1/64

Continued on Page F-9

Copper PENN-CRIMPS

STANDARD BARREL — RING TERMINALS

Made of pure electrolytic copper-annealed. Electro-tin plated for corrosion. Internal serrations firmly grip wire strands, assuring maximum tensile strength. Inspection hole permits easy examination of crimped joint.

	TYPE R1 and R2		TYPE R3	TYPE R4	TYPE R4N	TYPE R5 and R6	
							
STANDARD BARREL BASIC DIMENSIONS	BUTTED SEAM	BRAZED BARREL	BRASS SLEEVE	BRAZED BARREL VINYL INSULATION	BRAZED BARREL NYLON INSULATION	BRASS SLEEVE VINYL Insulation	BRASS SLEEVE NYLON Insulation

12—10 WIRE .040 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L¹	.255 Max. Insulation Dia. Cat. No.	Lgth. L²	.255 Max. Insulation Dia. Cat. No.	Lgth. L²	.220 Max. Insulation Dia. Cat. No.	Lgth. L²	.255 Max. Insulation Dia. Cat. No.	.255 Max. Insulation Dia. Cat. No.	Lgth. L²
4-6	3/8	9/32	R1C-6	R2C-6	47/64	R3C-6	31/32	R4C-6B	1	R4NC-6B	1	R5C-6	R6C-6	1
8	3/8	9/32	R1C-8	R2C-8	47/64	R3C-8	31/32	R4C-8B	1	R4NC-8B	1	R5C-8	R6C-8	1
10	3/8	9/32	R1C-10	R2C-10	47/64	R3C-10	31/32	R4C-10B	1	R4NC-10B	1	R5C-10	R6C-10	1
1/4	3/8	9/32	R1C-14S	R2C-14S	47/64	R3C-14S	31/32	R4C-14SB	1	R4NC-14SB	1	R5C-14S	R6C-14S	1
1/4	39/64	7/16	R1C-14	R2C-14	1	R3C-14	1 1/4	R4C-14B	1 9/32	R4NC-14B	1 9/32	R5C-14	R6C-14	1 9/32
5/16	39/64	7/16	R1C-56	R2C-56	1	R3C-56	1 1/4	R4C-56B	1 9/32	R4NC-56B	1 9/32	R5C-56	R6C-56	1 9/32
3/8	39/64	7/16	R1C-38	R2C-38	1	R3C-38	1 1/4	R4C-38B	1 9/32	R4NC-38B	1 9/32	R5C-38	R6C-38	1 9/32
1/2	3/4	37/64	R1C-50	R2C-50	1 13/64	R3C-50	1 1/2	R4C-50B	1 17/32	R4NC-50B	1 17/32	R5C-50	R6C-50	1 17/32

16-12 WIRE .050 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L¹	.255 Max. Insulation Dia. Cat. No.	Lgth. L²	.255 Max. Insulation Dia. Cat. No.	Lgth. L²	.220 Max. Insulation Dia. Cat. No.	Lgth. L²	.255 Max. Insulation Dia. Cat. No.	.255 Max. Insulation Dia. Cat. No.	Lgth. L²
4-6	3/8	9/32	R1D-6	R2D-6	47/64	R3D-6	31/32	R4D-6B	1	R4ND-6B	1	R5D-6	R6D-6	1
8	3/8	9/32	R1D-8	R2D-8	47/64	R3D-8	31/32	R4D-8B	1	R4ND-8B	1	R5D-8	R6D-8	1
10	3/8	9/32	R1D-10	R2D-10	47/64	R3D-10	31/32	R4D-10B	1	R4ND-10B	1	R5D-10	R6D-10	1
1/4	3/8	9/32	R1D-14S	R2D-14S	47/64	R3D-14S	31/32	R4D-14SB	1	R4ND-14SB	1	R5D-14S	R6D-14S	1
1/4	39/64	7/16	R1D-14	R2D-14	1	R3D-14	1 1/4	R4D-14B	1 9/32	R4ND-14B	1 9/32	R5D-14	R6D-14	1 9/32
5/16	39/64	7/16	R1D-56	R2D-56	1	R3D-56	1 1/4	R4D-56B	1 9/32	R4ND-56B	1 9/32	R5D-56	R6D-56	1 9/32
3/8	39/64	7/16	R1D-38	R2D-38	1	R3D-38	1 1/4	R4D-38B	1 9/32	R4ND-38B	1 9/32	R5D-38	R6D-38	1 9/32
1/2	3/4	37/64	R1D-50	R2D-50	1 13/64	R3D-50	1 1/2	R4D-50B	1 17/32	R4ND-38B	1 17/32	R5D-50	R6D-50	1 17/32

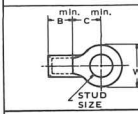
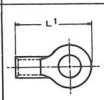
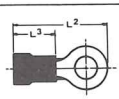
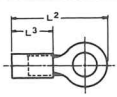
Continued on page F-11

Copper PENN-CRIMPS

STANDARD BARREL — RING TERMINALS

Continued from Page F-10

Made of pure electrolytic copper-annealed. Electro-tin plated for corrosion. Internal serrations firmly grip wire strands, assuring maximum tensile strength. Inspection hole permits easy examination of crimped joint.

	TYPE R2	TYPE R4	TYPE R4N
			
STANDARD BARREL BASIC DIMENSIONS	BRAZED BARREL	BRAZED BARREL VINYL INSULATION	BRAZED BARREL NYLON INSULATION

8 WIRE .050 STOCK

Barrel B	Stud Size S	Width W	Clearance C	Cat. No.	Lgth. L^1	.385 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^3	.275 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^3
5/16	10S	15/32	13/32	R2E-10S	61/64	R4E-10S	1 17/64	3/8	R4NE-10S	1 17/64	3/8
5/16	1/4S	15/32	13/32	R2E-14S	61/64	R4E-14S	1 17/64	3/8	R4NE-14S	1 17/64	3/8
5/16	10	15/32	29/64	R2E-10	1 5/16	R4E-10	1 3/8	3/8	R4NE-10	1 3/8	3/8
5/16	1/4	15/32	29/64	R2E-14	1 5/16	R4E-14	1 3/8	3/8	R4NE-14	1 3/8	3/8
5/16	5/16	15/32	29/64	R2E-56	1 5/16	R4E-56	1 3/8	3/8	R4NE-56	1 3/8	3/8
5/16	3/8	15/32	29/64	R2E-38	1 5/16	R4E-38	1 3/8	3/8	R4NE-38	1 3/8	3/8
5/16	1/2	1 1/8	1 1/32	R2E-50	1 23/32	R4E-50	2 1/32	3/8	R4NE-50	2 1/32	3/8
5/16	3/4	1 1/8	1 1/32	R2E-75	1 23/32	R4E-75	2 1/32	3/8	R4NE-75	2 1/32	3/8

6 WIRE .050 STOCK

Barrel B	Stud Size S	Width W	Clearance C	Cat. No.	Lgth. L^1	.440 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^3	.355 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^3
3/8	10	3/8	1/2	R2F-10	1 1/32	R4F-10	1 19/32	3/4	R4NF-10	1 19/32	3/4
3/8	1/4	3/8	1/2	R2F-14	1 1/32	R4F-14	1 19/32	3/4	R4NF-14	1 19/32	3/4
3/8	5/16	3/8	1/2	R2F-56	1 1/32	R4F-56	1 19/32	3/4	R4NF-56	1 19/32	3/4
3/8	3/8	3/8	1/2	R2F-38	1 1/32	R4F-38	1 19/32	3/4	R4NF-38	1 19/32	3/4
3/8	1/2	1 1/8	1	R2F-50	1 31/32	R4F-50	2 11/32	3/4	R4NF-50	2 11/32	3/4
3/8	3/4	1 1/8	1	R2F-75	1 31/32	R4F-75	2 11/32	3/4	R4NF-75	2 11/32	3/4

4 WIRE .075 STOCK

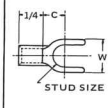
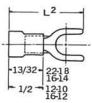
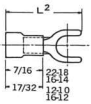
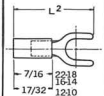
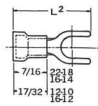
Barrel B	Stud Size S	Width W	Clearance C	Cat. No.	Lgth. L^1	.515 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^3	.430 Max. Insulation Dia. Cat. No.	Lgth. L^2	Lgth. L^1
15/32	10	21/32	35/64	R2G-10	1 11/32	R4G-10	1 25/32	7/8	R4NG-10	1 25/32	7/8
15/32	1/4	21/32	35/64	R2G-14	1 11/32	R4G-14	1 25/32	7/8	R4NG-14	1 25/32	7/8
15/32	5/16	21/32	35/64	R2G-56	1 11/32	R4G-56	1 25/32	7/8	R4NG-56	1 25/32	7/8
15/32	3/8	21/32	35/64	R2G-38	1 11/32	R4G-38	1 25/32	7/8	R4NG-38	1 25/32	7/8
15/32	1/2	1 1/4	1 3/32	R2G-50	2 3/32	R4G-50	2 17/32	7/8	R4NG-50	2 17/32	7/8
15/32	3/4	1 1/4	1 3/32	R2G-75	2 3/32	R4G-75	1 17/32	7/8	R4NG-75	1 17/32	7/8

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

STANDARD BARREL SPADE TERMINALS

Made of pure electrolytic copper-annealed. Electro-tin plated for corrosion. Internal serrations firmly grip wire strands, assuring maximum tensile strength. Inspection hole permits easy examination of crimped joint.

	TYPE S1 and S2		TYPE S3	TYPE S4	TYPE S4N	TYPE S5 and S6	
							
BASIC BARREL DIMENSIONS	BUTTED SEAM	BRAZED BARREL	BRASS SLEEVE	BRAZED BARREL VINYL INSULATION	BRAZED BARREL NYLON INSULATION	BRASS SLEEVE VINYL Insulation	BRASS SLEEVE NYLON Insulation

22-18 WIRE .030 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.135 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	11/32	1/4	S1A-6	S2A-6	11/16	S3A-6	21/32	S4A-6B	7/8	S4NA-6B	7/8	S5A-6	S6A-6	7/8
8	11/32	1/4	S1A-8	S2A-8	11/16	S3A-8	21/32	S4A-8B	7/8	S4NA-8B	7/8	S5A-8	S6A-8	7/8
10	11/32	1/4	S1A-10	S2A-10	11/16	S3A-10	21/32	S4A-10B	7/8	S4NA-10B	7/8	S5A-10	S6A-10	7/8
4-6	25/64	11/32	S1A-6L	S2A-6L	3/4	S3A-6L	29/32	S4A-6LB	15/16	S4NA-6LB	15/16	S5A-6L	S6A-6L	15/16
8	25/64	11/32	S1A-8L	S2A-8L	3/4	S3A-8L	29/32	S4A-8LB	15/16	S4NA-8LB	15/16	S5A-8L	S6A-8L	15/16
10	25/64	11/32	S1A-10L	S2A-10L	3/4	S3A-10L	29/32	S4A-10LB	15/16	S4NA-10LB	15/16	S5A-10L	S6A-10L	15/16

16-14 WIRE .030 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.155 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	11/32	1/4	S1B-6	S2B-6	11/16	S3B-6	21/32	S4B-6B	7/8	S4NB-6B	7/8	S5B-6	S6B-6	7/8
8	11/32	1/4	S1B-8	S2B-8	11/16	S3B-8	21/32	S4B-8B	7/8	S4NB-8B	7/8	S5B-8	S6B-8	7/8
10	11/32	1/4	S1B-10	S2B-10	11/16	S3B-10	21/32	S4B-10B	7/8	S4NB-10B	7/8	S5B-10	S6B-10	7/8
4-6	25/64	11/32	S1B-6L	S2B-6L	3/4	S3B-6L	29/32	S4B-6LB	15/16	S4NB-6LB	15/16	S5B-6L	S6B-6L	15/16
8	25/64	11/32	S1B-8L	S2B-8L	3/4	S3B-8L	29/32	S4B-8LB	15/16	S4NB-8LB	15/16	S5B-8L	S6B-8L	15/16
10	25/64	11/32	S1B-10L	S2B-10L	3/4	S3B-10L	29/32	S4B-10LB	15/16	S4NB-10LB	15/16	S5B-10L	S6B-10L	15/16

12-10 WIRE .040 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.220 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	25/64	9/32	S1C-6	S2C-6	3/4	S3C-6	1	S4C-6B	1 1/32	S4NC-6B	1 1/32	S5C-6	S6C-6	1 1/32
8	25/64	9/32	S1C-8	S2C-8	3/4	S3C-8	1	S4C-8B	1 1/32	S4NC-8B	1 1/32	S5C-8	S6C-8	1 1/32
10	25/64	9/32	S1C-10	S2C-10	3/4	S3C-10	1	S4C-10B	1 1/32	S4NC-10B	1 1/32	S5C-10	S6C-10	1 1/32

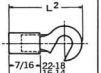
16—12 WIRE HEAVY DUTY .050 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.220 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	25/64	9/32	S1D-6	S2D-6	3/4	S3D-6	1	S4D-6B	1 1/32	S4ND-6B	1 1/32	S5D-6	S6D-6	1 1/32
8	25/64	9/32	S1D-8	S2D-8	3/4	S3D-8	1	S4D-8B	1 1/32	S4ND-8B	1 1/32	S5D-8	S6D-8	1 1/32
10	25/64	9/32	S1D-10	S2D-10	3/4	S3D-10	1	S4D-10B	1 1/32	S4ND-10B	1 1/32	S5D-10	S6D-10	1 1/32

Copper PENN-CRIMPS

STANDARD BARREL—HOOK TERMINALS

Made of pure electrolytic copper-annealed. Electro-tin plated for corrosion. Internal serrations firmly grip wire strands, assuring maximum tensile strength. Inspection hole permits easy examination of crimped joint.

	TYPE H1 and H2		TYPE H3	TYPE H4	TYPE H4N	TYPE H5 and H6	
							
STANDARD BARREL BASIC DIMENSIONS	BUTTED SEAM	BRAZED BARREL	BRASS SLEEVE	BRAZED BARREL VINYL INSULATION	BRAZED BARREL NYLON INSULATION	BRASS SLEEVE VINYL Insulation	BRASS SLEEVE NYLON Insulation

22-18 WIRE .030 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2	.135 Max. Insulation Dia. Cat. No.	Lgth. L^2	.145 Max. Insulation Dia. Cat. No.	.145 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	23/64	1/4	H1A-6	H2A-6	11/16	H3A-6	27/32	H4A-6B	7/8	H4NA-6B	7/8	H5A-6	H6A-6	7/8
8	23/64	1/4	H1A-8	H2A-8	11/16	H3A-8	27/32	H4A-8B	7/8	H4NA-8B	7/8	H5A-8	H6A-8	7/8
10	23/64	1/4	H1A-10	H2A-10	11/16	H3A-10	27/32	H4A-10B	7/8	H4NA-10B	7/8	H5A-10	H6A-10	7/8

16-14 WIRE .030 STOCK

Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2	.155 Max. Insulation Dia. Cat. No.	Lgth. L^2	.175 Max. Insulation Dia. Cat. No.	.175 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	23/64	1/4	H1B-6	H2B-6	11/16	H3B-6	27/32	H4B-6B	7/8	H4NB-6B	7/8	H5B-6	H6B-6	7/8
8	23/64	1/4	H1B-8	H2B-8	11/16	H3B-8	27/32	H4B-8B	7/8	H4NB-8B	7/8	H5B-8	H6B-8	7/8
10	23/64	1/4	H1B-10	H2B-10	11/16	H3B-10	27/32	H4B-10B	7/8	H4NB-10B	7/8	H5B-10	H6B-10	7/8

12-10 WIRE .040 STOCK

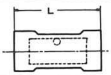
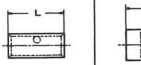
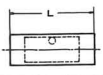
Stud Size S	Width W	Clearance C	Cat. No.	Cat. No.	Lgth. L^1	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2	.220 Max. Insulation Dia. Cat. No.	Lgth. L^2	.255 Max. Insulation Dia. Cat. No.	.255 Max. Insulation Dia. Cat. No.	Lgth. L^2
4-6	23/64	9/32	H1C-6	H2C-6	47/64	H3C-6	31/32	H4C-6B	1	H4NC-6B	1	H5C-6	H6C-6	1
8	23/64	9/32	H1C-8	H2C-8	47/64	H3C-8	31/32	H4C-8B	1	H4NC-8B	1	H5C-8	H6C-8	1
10	23/64	9/32	H1C-10	H2C-10	47/64	H3C-10	31/32	H4C-10B	1	H4NC-10B	1	H5C-10	H6C-10	1

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

BUTT CONNECTORS

Non-insulated and insulated Butt Connectors. Made of pure electrolytic copper. Electro-tin plated for corrosion.

TYPE B1 and B2		TYPE B4	TYPE B7	TYPE B8
				
BUTTED SEAM	BRAZED BARREL	VINYL INSULATION *With brazed Barrel VINYL INSULATION **With Seamless Tube	SEAMLESS TUBE	SEAMLESS TUBE NYLON INSULATION

22-18 WIRE — .030 STOCK

Cat. No.	Cat. No.	Length L	.145 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L	.125 Max. Insulation Dia. Cat. No.	Length L
B1A	B2A	3/16	*B4AB	15/16	B7A	5/8	B8A	1

16-14 WIRE — .030 STOCK

Cat. No.	Cat. No.	Length L	.175 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L	.155 Max. Insulation Dia. Cat. No.	Length L
B1B	B2B	3/16	*B4BB	15/16	B7B	21/32	B8B	1 1/32

12-10 WIRE — .040 STOCK

Cat. No.	Cat. No.	Length L	.255 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L	.210 Max. Insulation Dia. Cat. No.	Length L
B1C	B2C	3/16	*B4CB	1 1/16	B7C	13/16	B8C	1 3/16

8 GAGE — .050 STOCK

.385 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L
**B4E	1 7/16	B7E	13/16

6 GAGE — .055 STOCK

.440 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L
**B4F	1 3/4	B7F	1 1/64

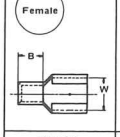
4 GAGE — .075 STOCK

.515 Max. Insulation Dia. Cat. No.	Length L	Cat. No.	Length L
**B4G	1 41/64	B7G	1 3/64

Copper PENN-CRIMPS

EASY DISCONNECT AND PUSH-ON TYPE TERMINALS

Female Connectors for quick disconnect and ease of installation.
Provides constant spring action contact. Available with insulation support.

	TYPE FR1	TYPE FR3	TYPE FR4	TYPE FR4N	TYPE FR6
					
BASIC BARREL DIMENSIONS	BUTTED SEAM	BRASS SLEEVE	VINYL INSULATION	NYLON INSULATION	BRASS SLEEVE NYLON INSULATION

22-18 WIRE .020 STOCK

Barrel Length B	Width W	Cat. No.	Length L^1	.145 Max. Insulation Dia. Cat. No.	Length L^2	.145 Max. Insulation Dia. Cat. No.	Length L^2	.135 Max. Insulation Dia. Cat. No.	Length L^2	.145 Max. Insulation Dia. Cat. No.	Length L^2
11/64	3/16	FR1A-187	1/2	FR3A-187	3/4	FR4A-187	25/32	FR4NA-187	25/32	FR6A-187	25/32
15/64	1/4	FR1A-250	41/64	FR3A-250	13/16	FR4A-250	27/32	FR4NA-250	27/32	FR6A-250	27/32

16-14 WIRE .020 STOCK

Barrel Length B	Width W	Cat. No.	Length L^1	.175 Max. Insulation Dia. Cat. No.	Length L^2	.175 Max. Insulation Dia. Cat. No.	Length L^2	.155 Max. Insulation Dia. Cat. No.	Length L^2	.175 Max. Insulation Dia. Cat. No.	Length L^2
11/64	3/16	FR1B-187	1/2	FR3B-187	3/4	FR4B-187	25/32	FR4NB-187	25/32	FR6B-187	25/32
15/64	1/4	FR1B-250	41/64	FR3B-250	13/16	FR4B-250	27/32	FR4NB-250	27/32	FR6B-250	27/32

12-8 WIRE .020 STOCK

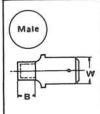
Barrel Length B	Width W	Cat. No.	Length L^1	.255 Max. Insulation Dia. Cat. No.	Length L^2	.255 Max. Insulation Dia. Cat. No.	Length L^2	.220 Max. Insulation Dia. Cat. No.	Length L^2	.255 Max. Insulation Dia. Cat. No.	Length L^2
15/64	1/4	FR1E-250	41/64	FR3E-250	29/32	FR4E-250	15/16	FR4NE-250	15/16	FR6E-250	15/16

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

EASY DISCONNECT AND PUSH-ON TYPE TERMINALS

Male Connectors for quick disconnect and ease of installation.
Provides constant spring action contact. Available with insulation support.

	TYPE M1	TYPE M3	TYPE M4	TYPE M4N	TYPE M6
					
BASIC BARREL DIMENSIONS	BUTTED SEAM	BRASS SLEEVE	VINYL INSULATION	NYLON INSULATION	BRASS SLEEVE NYLON INSULATION

22-18 WIRE .020 STOCK

Barrel Length B	Width W	Cat. No.	Length L1	.145 Max. Insulation Dia. Cat. No.	Length L2	.145 Max. Insulation Dia. Cat. No.	Length L2	.135 Max. Insulation Dia. Cat. No.	Length L2	.145 Max. Insulation Dia. Cat. No.	Length L2
13/64	3/16	M1A-187	45/64	M3A-187	57/64	M4A-187	59/64	M4NA-187	59/64	M6A-187	59/64
13/64	1/4	M1A-250	45/64	M3A-250	57/64	M4A-250	59/64	M4NA-250	59/64	M6A-250	59/64

16-14 WIRE .030 STOCK

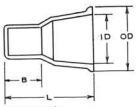
Barrel Length B	Width W	Cat. No.	Length L1	.175 Max. Insulation Dia. Cat. No.	Length L2	.175 Max. Insulation Dia. Cat. No.	Length L2	.155 Max. Insulation Dia. Cat. No.	Length L2	.175 Max. Insulation Dia. Cat. No.	Length L2
15/64	3/16	M1B-187	45/64	M3B-187	57/64	M4B-187	59/64	M4NB-187	59/64	M6B-187	59/64
15/64	1/4	M1B-250	45/64	M3B-250	57/64	M4B-250	59/64	M4NB-250	59/64	M6B-250	59/64

12-8 WIRE .030 STOCK

Barrel Length B	Width W	Cat. No.	Length L1	.255 Max. Insulation Dia. Cat. No.	Length L2	.255 Max. Insulation Dia. Cat. No.	Length L2	.220 Max. Insulation Dia. Cat. No.	Length L2	.255 Max. Insulation Dia. Cat. No.	Length L2
13/64	1/4	M1E-250	45/64	M3E-250	57/64	M4E-250	59/64	M4NE-250	59/64	M6E-250	59/64

NYLON PIGTAILS

NYLON CLOSED END CONNECTOR



Nylon Closed End Connector manufactured with clear nylon molded insulation permanently attached to insert made of pure electrolytic copper. Insert electro-tin plated for corrosion. Bellmouth Entrance allows quick and positive wire insertion.

Catalog Number	Wire Range	Outside Diameter O.D.	Overall Length L	Barrel Length B	Inside Diameter I.D.
NPAB-S	22-14	13/32	19/32	5/16	9/32
NPAB	22-14	13/32	11/16	5/16	11/32
NPBC	18-10	17/32	47/64	9/32	13/32

Copper PENN-CRIMPS

TYPE CAP

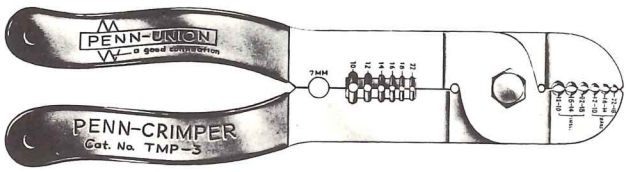
Eyelet construction allows complete visibility after compression—makes it fast and simple to cut wires flush with cap. Designed in two sizes for covering the average range of circuit wiring requirements. Made from pure copper to insure maximum results on terminations and splices. To splice, insert twisted wires in cap, crimp, trim and insulate. Can be furnished tin plated. When ordering, please suffix catalog number with the letters TN. For example, CAP-6TN.

Catalog Number	Wire Range	DIMENSIONS IN INCHES		Approx. Shipping Wt. P/M	Unit Package	Carton Package
		O.D.	L		Quantity	Quantity
CAP-6	(4) #18 thru (2) #12	1/4	7/16	3	100	1000
CAP-11	(3) #12 thru (2) # 6	23/64	15/32	6	50	500

CRIMPING TOOL

CATALOG NUMBER TMP-3

For Insulated and Non-Insulated "Penn-Crimps"



One tool—designed to fulfill all necessary operations for a completed electrical joint. Tool will strip, cut, and crimp wires from #22 through #10 sizes. Tool gives a fast and efficient crimp—never more than one crimp being required. The jaws are plainly marked for all the wire ranges, and the die openings for crimping insulated connectors are color coded for easier and quicker selection of the correct die.

The tool is made of a select, high grade steel, specially hardened for long life and serviceability. Handles are covered with a sturdy insulation designed to withstand 4,000 volts.

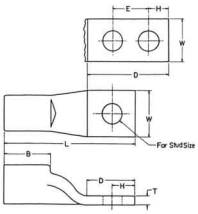
Besides crimping the entire line of Penn-Crimps from #22 through #10, a special built-in die is provided for crimping ignition terminals.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

TYPE BLU

Single Crimp Lugs with Inspection Window for #8 Stranded thru 2000 MCM



Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Inspection window insures full insertion.

Complete catalog number and conductor size marked on every piece insures positive identification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.

Copper Conductor	Stud Size	Number of holes in Tongue	CATALOG NUMBER	DIMENSIONS IN INCHES							Crimping Tool Ref. No. (See Pages F-55 & F-56)		
				L	B	D	E	H	T	W	Penn-Union	Burndy	T & B
#8 Str. 23 Navy #8 Weld 37/24 133/.0111	#10 #10 1/4 5/16 3/8 1/2	1 2 1 1 1 1	**BLU-8S14** **BLU-8D** **BLU-8S15** **BLU-8S16** **BLU-8S17** **BLU-8S18**	1-5/32 1-23/32 1-7/32 1-5/16 1-11/32 1-33/64	13/32	1/2 1-1/16 9/16 21/32 11/16 55/64	--- 5/8 --- --- --- ---	1/4 7/32 9/32 9/32 19/64 3/8	5/64	13/32 13/32 13/32 9/16 9/16 13/16	P-1	B6-11	T-17
#6 Str. 49/.0184 61/24	#10 1/4 1/4 5/16 3/8	1 1 2 1 1	**BLU-6S** **BLU-6S1** **BLU-6D** **BLU-6S2** **BLU-6S8**	1-9/16 1-23/32 2-7/32 1-25/32 1-27/32	13/16	17/32 11/16 1-3/16 3/4 13/16	--- --- 5/8 --- ---	7/32 5/16 1/4 11/32 3/8	3/32	13/32 7/16 7/16 1/2 19/32	P-2	B-94	T-18
#5 Str. 30 Navy #6 Weld 49/.0231 84/25 91/24	#10 1/4 1/4 5/16 3/8	1 1 2 1 1	**BLU-5S** **BLU-5S1** **BLU-5D** **BLU-5S2** **BLU-5S3**	1-39/64 1-47/64 2-19/64 1-49/64 1-59/64	13/16	9/16 11/16 1-3/16 23/32 7/8	--- --- 5/8 --- ---	1/4 5/16 1/4 11/32 13/32	3/32	7/16 7/16 7/16 9/16 19/32	P-2	B-21	—
#4 Str. 40 Navy 49/.026 84/24 133/.0158	#10 1/4 1/4 5/16 3/8	1 1 2 1 1	**BLU-4S** **BLU-4S1** **BLU-4D** **BLU-4S10** **BLU-4S2**	1-39/64 1-47/64 2-19/64 1-49/64 1-49/64	13/16	9/16 11/16 1-3/16 23/32 7/8	--- --- 5/8 --- ---	1/4 5/16 1/4 11/32 13/32	3/32	1/2 1/2 1/2 19/32 19/32	P-3	B-95	T-19
#3 Str. 50 Navy #4 Weld 49/21 611.0294 84/23 133/25 133/.0177	#10 1/4 1/4 5/16 3/8	1 1 2 1 1	**BLU-3S** **BLU-3S1** **BLU-3D** **BLU-3S2** **BLU-3S3**	1-43/64 1-51/64 2-19/64 1-55/64 1-63/64	7/8	9/16 11/16 1-3/16 3/4 7/8	--- --- 5/8 --- ---	1/4 5/16 1/4 11/32 13/32	7/64	17/32 17/32 17/32 9/16 19/32	P-3	B-47	—
#2 Str. 60 Navy #3 Weld 49/.0328 84/22 133/24 133/.0199	1/4 1/4 5/16 3/8 1/2	1 2 1 1 1	**BLU-2S** **BLU-2D** **BLU-2S1** **BLU-2S2** **BLU-2S10**	1-51/64 2-19/64 1-55/64 1-63/64 2-15/64	7/8	11/16 1-3/16 3/4 7/8 1-1/8	--- 5/8 --- --- ---	5/16 1/4 11/32 13/32 9/16	7/64	19/32 19/32 19/32 5/8 13/16	P-4	B-97	T-20

(continued on next page)

Copper PENN-CRIMPS

TYPE BLU *Continued from preceding page*

Copper Conductor	Stud Size	Number of holes in Tongue	Catalog Number	DIMENSIONS IN INCHES L	B	D	E	H	T	W	Crimping Tool Ref. No. (See Pages F-55 & F-56) Penn-Union	Burndy	T & B
#1 Str. 75 Navy #2 Weld 37/.0476 49/.0368 84/21 133/23 133/.0223 150/24 175/24	 1/4 1/4 5/16 5/16 3/8 1/2	 1 2 1 2 1 1	 **BLU-1S9** **BLU-1D2** **BLU-1S** **BLU-1D4** **BLU-1S1** **BLU-1S4**	 1-27/64 2-23/64 1-55/64 2-51/64 2-3/64 2-19/64	 5/8 15/16 7/8 15/16 15/16 15/16	 9/16 1-3/16 3/4 1-5/8 7/8 1-1/8	 --- 5/8 --- 7/8 --- ---	 1/4 1/4 11/32 11/32 7/16 9/16	 7/64 	 43/64 43/64 43/64 43/64 43/64 3/4	P-5	B-98	T-21
1/0 A.W.G. 100 Navy #1 Weld 84/20 133/22 133/.0251 225/24 259/.0180 259/.0202	 1/4 5/16 5/16 3/8 3/8 1/2 1/2	 1 1 2 1 2 1 2	 **BLU-1/0S19** **BLU-1/0S** **BLU-1/0D** **BLU-1/0S1** **BLU-1/0D4** **BLU-1/0S20** **BLU-1/0D2**	 1-15/16 1-15/16 2-13/16 2-7/16 3 2-1/4 4-1/16	 7/8 	 3/4 3/4 1-5/8 7/8 1-13/16 1-1/16 2-7/8	 --- --- 7/8 --- 1 --- 1-3/4	 11/32 11/32 11/32 13/32 3/8 1/2 17/32	 1/8 	 3/4 3/4 3/4 3/4 3/4 13/16 13/16	P-6	B-99	T-22
2/0 A.W.G. 125 Navy 1/0 Weld 133/.0282 275/24 259/.0201 427/.0155	1/4 5/16 5/16 3/8 3/8 1/2 1/2	1 1 2 1 2 1 2	**BLU-2/0S20** **BLU-2/0S21** **BLU-2/0D3** **BLU-2/0S** **BLU-2/0D4** **BLU-2/0S4** **BLU-2/0D**	2-1/16 2-1/16 2-7/8 2-1/8 3-1/16 2-3/8 4-1/8	 15/16 	13/16 13/16 1-5/8 7/8 1-13/16 1-1/8 2-7/8	--- --- 7/8 --- --- 1-3/4	11/32 11/32 11/32 13/32 3/8 9/16 17/32	1/8	13/16	P-7	B-100	T-23
3/0 A.W.G. 150 Navy 133/21 259/.0227	1/4 5/16 5/16 3/8 3/8 1/2 1/2	1 1 2 1 2 1 2	**BLU-3/0S14** **BLU-3/0S15** **BLU-3/0D11** **BLU-3/0S** **BLU-3/0D3** **BLU-3/0S1** **BLU-3/0D**	1-15/16 1-15/16 3 2-1/4 3-3/16 2-1/2 4-1/4	3/4 3/4 1 1 1 1 1	13/16 13/16 1 5/8 7/8 1 13/16 1-1/8 2-7/8	--- --- 7/8 --- 1 --- 1-3/4	11/32 11/32 11/32 13/32 3/8 17/32 17/32	1/8	29/32	P-8	B-101	T-24
2/0 Weld 133/.0316 325/24 427/.0177	1/4 5/16 3/8 3/8 1/2 1/2	1 1 1 2 1 2	**BLU-018S1** **BLU-018S2** **BLU-018S** **BLU-018D1** **BLU-018S3** **BLU-018D**	2-7/32 2-7/32 2-15/16 3-1/4 2-9/16 4-5/16	 1 	25/32 25/32 7/8 1-13/16 1-1/8 2-7/8	--- --- --- 1 --- 1-3/4	11/32 11/32 13/32 3/8 17/32 17/32	1/8	29/32	P-8	B-28	T-24
4/0 A.W.G. 200 Navy 133/.0355 259/.0255 375/24 427/.0199	1/4 5/16 3/8 3/8 1/2 1/2	1 1 1 2 1 2	**BLU-4/0S19** **BLU-4/0S25** **BLU-4/0S** **BLU-4/0D10** **BLU-4/0S1** **BLU-4/0D**	2-7/32 2-7/32 2-15/16 3-1/4 2-9/16 4-5/16	 1 	25/32 25/32 7/8 1-13/16 1-1/8 2-7/8	--- --- --- 1 --- 1-3/4	11/32 11/32 13/32 3/8 9/16 17/32	9/64	1	P-9	B-15	T-25
250 MCM 250 Navy 3/0 Weld 450/24 703/.0154	1/4 5/16 3/8 3/8 1/2 1/2	1 1 1 2 1 2	**BLU-025S4** **BLU-025S5** **BLU-025S2** **BLU-025D3** **BLU-025S** **BLU-025D**	2-11/32 2-11/32 2-9/16 3-3/8 2-11/16 4-7/16	 1-1/16 	25/32 25/32 1 1-13/16 1-1/8 2-7/8	--- --- --- 1 --- 1-3/4	11/32 11/32 13/32 3/8 17/32 17/32	5/32	1-3/32	P-10	B-16	T-26
4/0 Weld 133/.0399 259/.0286 550/24	5/16 3/8 3/8 1/2 1/2 5/8	1 1 2 1 2 1	**BLU-027S1** **BLU-027S2** **BLU-027D1** **BLU-027S** **BLU-027D** **BLU-027S3**	2-11/32 2-9/16 3-3/8 2-11/16 4-7/16 3-1/4	 1-1/16 	25/32 1 1-13/16 1-1/8 2-7/8 1-11/16	--- --- 1 --- 1-3/4 ---	11/32 13/32 3/8 17/32 17/32 13/16	1/8	1-7/64	P-10	B-35	T-26

(continued on next page)

Copper

PENN-CRIMPS

TYPE BLU *Continued from preceding page*

Copper Conductor	Stud Size	Number of holes in Tongue	CATALOG NUMBER	DIMENSIONS IN INCHES							Crimping Tool Ref. No. (See Pages F-55 & F-56)		
				L	B	D	E	H	T	W	Penn-Union	Burndy	T & B
	5/16	1	BLU-030S6	2-13/32		25/32	---	11/32					
	3/8	1	BLU-030S7	2-5/8		1	---	13/32					
300 MCM	3/8	2	BLU-030D9	3-7/16	1-1/16	1-13/16	1	3/8					
300 Navy	1/2	1	BLU-030S	2-3/4		1-1/8	---	17/32	5/32	1-3/16	P-11	B-17	T-27
	1/2	2	BLU-030D	4-1/2		2-7/8	1-3/4	17/32					
	5/8	1	BLU-030S8	3-5/16		1- 11/16	---	13/16					
350 MCM	3/8	1	BLU-035S1	2-5/8		7/8	---	7/16					
350 Navy	3/8	2	BLU-035D13	3-9/16		1-13/16	1	3/8					
259/.0311	1/2	1	BLU-035S	2-29/32	1-1/8	1-5/32	---	17/32	11/64	1-9/32	P-12	B-18	T-28
427/.0242	1/2	2	BLU-035D	4-5/8		2-7/8	1-3/4	17/32					
650/.24	5/8	1	BLU-035S3	3-5/32		1-13/32	---	21/32					
703/.0189													
250 Weld	3/8	1	BLU-038S1	2-5/8		7/8	---	7/16					
259/.034	1/2	1	BLU-038S	2-29/32		1-5/32	---	17/32					
427/.0265	1/2	2	BLU-038D	4-5/8	1-1/8	2-7/8	1-3/4	17/32	15/64	1-25/64	P-12	B-36	T-28
775/24	5/8	1	BLU-038S2	3-5/32		1-13/32	---	21/32					
889/.0183													
400 MCM	3/8	2	BLU-040D7	3-11/16		1-13/16	1	3/8					
400 Navy	1/2	1	BLU-040S4	3-1/16	1-3/16	1-3/16	---	9/16	3/16	1-13/32			
427/.0285	1/2	2	BLU-040D	4-3/4		2-7/8	1-3/4	17/32			P-13	B-19	T-29
	5/8	1	BLU-040S	3-5/16		1-7/16	---	21/32					
450 MCM													
300 Weld	1/2	1	BLU-045S1	3-1/16		1-3/16	---	9/16					
259/.0368	1/2	2	BLU-045D	4-3/4	1-3/16	2-7/8	1-3/4	17/32	7/32	1-29/64	P-13	---	T-29
703/.0224	5/8	1	BLU-045S	3-5/16		1-7/16	---	21/32					
889/.0201													
500 MCM													
500 Navy	3/8	2	BLU-050D13	3-15/16		1-13/16	1	7/16					
350 Weld	1/2	1	BLU-050S2	3-1/4		1-1/8	---	9/16					
259/.0393	1/2	2	BLU-050D	5	1-3/8	2-7/8	1-3/4	17/32	7/32	1-17/32	P-14	B-20	T-11
427/.0306	5/8	1	BLU-050S	3-9/16		1-7/16	---	21/32					
925/24													
600 MCM													
400 Weld													
259/.0417													
259/.0439	1/2	2	BLU-060D	5-3/32	1-3/8	2-7/8	1-3/4	17/32	17/64	1-11/16	P-15	B-22	T-30
427/.0325	5/8	1	BLU-060S	3-31/32		1-3/4	---	7/8					
703/.0253													
1100/24													

(continued on next page)

Copper

PENN-CRIMPS

TYPE BLU *Continued from preceding page*

Copper Conductor	Stud Size	Number of holes in Tongue	CATALOG NUMBER	DIMENSIONS IN INCHES							Crimping Tool Ref. No. (See Pages F-55 & F-56)		
				L	B	D	E	H	T	W	Penn-Union	Burndy	T & B
650 MCM 650 Navy 427/.0342 1325/24	1/2 5/8	2 1	**BLU-065D** **BLU-065S4**	5-3/32 3-31/32	1-3/8	2-7/8 1-3/4	1-3/4 ---	17/32 7/8	17/64	1-25/32	P-15	---	T-12
750 MCM 500 Weld 703/.0285 703/.0292 1600/24	1/2 5/8	2 1	**BLU-075D** **BLU-075S**	5-7/16 4	1-5/8	2-7/8 1-7/16	1-3/4	17/32 21/32	17/64	1-29/32	P-16	B-24	T-31
800 MCM 800 Navy 427/.0375 427/.039 703/.0304	1/2 5/8	2 1	**BLU-080D** **BLU-080S**	5-17/32 4-17/32	1-5/8	2-7/8 1-7/8	1-3/4 ---	17/32 15/16	19/64	1-31/32	P-17	B-25	T-32
900 MCM 427/.0405 703/.0316 1925/24	1/2 5/8	2 1	**BLU-090D** **BLU-090S**	5-17/32 4-17/32	1-5/8	2-7/8 1-7/8	1-3/4 ---	17/32 15/16	3/8	2-9/64	P-17	---	T-33
1000 MCM 1000 Navy 427/.0419 703/.0327	1/2 5/8 3/4	2 1 1	**BLU-100D** **BLU-100S** **BLU-100S4**	5-7/8 4-7/8 4-7/8	1-7/8	2-7/8 1-7/8 1-7/8	1-3/4 --- ---	17/32 15/16 15/16	21/64	2-3/16	P-18	B-27	T-14
1500 MCM	1/2 3/4	2 1	**BLU-150D** **BLU-150S**	6-3/32 5-15/32	2	2-7/8 2-1/4	1-3/4 ---	17/32 1-1/8	3/8	2-11/16	P-19	B-31	---
2000 MCM	1/2 3/4	2 1	**BLU-200D** **BLU-200S**	6-3/8 5-15/16	2-1/4	2-7/8 2-3/8	1-3/4 ---	17/32 1-3/16	15/32	3-1/16	P-20	B-34	---

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

TYPE BCU

Single Crimp Splices for #8 Stranded thru 2000 MCM

Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion.

Catalog number and conductor sizes marked on every piece insures positive identification.

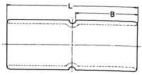
Can be installed with existing crimping tools. See tool reference list for detailed recommendations.

Splices meet the requirements of MIL-E-16366.

Copper Conductor	Catalog Number	B	L	Crimping Tool Ref. No. (See Pages F-55 & F-56)		
				Penn-Union	Burndy	T&B
#8 Str. 23 Navy #8 Weld 37/24 133/.0111	BCU-8	13/32	1-1/16	P-1	B-6-11	T-17
#6 Str. 49/.0184 61/24	BCU-6	13/16	1-3/4	P-2	B-94	T-18
#5 Str. 30 Navy #6 Weld 49/.0231 84/25 91/24	BCU-5	13/16	1-3/4	P-2	B-21	—
#4 Str. 40 Navy 49/.026 84/24 133/.0158	BCU-4	13/16	1-3/4	P-3	B-95	T-19
#3 Str. 50 Navy #4 Weld 49/21 61/.0294 84/23 133/25 133/.0177	BCU-3	13/16	1-3/4	P-3	B-47	—
#2 Str. 60 Navy #3 Weld 49/.0328 84/22 133/24 133/.0199	BCU-2	7/8	1-7/8	P-4	B-97	T-20
#1 Str. 75 Navy #2 Weld 37/.0476 49/.0368 84/21 133/23 133/.0223 150/24 175/24	BCU-1	7/8	1-7/8	P-5	B-98	T-21
1/0 A.W.G. 100 Navy #1 Weld 84/20 133/22 133/.0251 225/24 259/.0180 259/.0202	BCU-1/0	7/8	1-7/8	P-6	B-99	T-22
2/0 A.W.G. 125 Navy 1/0 Weld 133/.0282 275/24 259/.0201 427/.0155	BCU-2/0	15/16	2	P-7	B-100	T-23
3/0 A.W.G. 150 Navy 133/21 259/.0227	BCU-3/0	1	2-1/8	P-8	B-101	T-24
2/0 Weld 133/.0316 325/24 427/.0177	BCU-018	1	2-1/8	P-8	B-28	T-24
4/0 A.W.G. 200 Navy 133/.0355 259/.0255 375/24 427/.0199	BCU-4/0	1	2-1/8	P-9	B-15	T-25
250 MCM 250 Navy 3/0 Weld 450/24 703/.0154	BCU-025	1-1/16	2-1/4	P-10	B-16	T-26
4/0 Weld 133/.0399 259/.0286 550/24	BCU-027	1-1/16	2-1/4	P-10	B-35	T-26
300 MCM 300 Navy	BCU-030	1-1/16	2-1/4	P-11	B-17	T-27
350 MCM 350 Navy 427/.0242 650/24 703/.0189	BCU-035	1-1/8	2-3/8	P-12	B-18	T-28
250 Weld 259/.034 427/.0265 775/24 889/.0183	BCU-038	1-3/16	2-1/2	P-12	B-36	T-28
400 MCM 400 Navy 427/.0285	BCU-040	1-3/16	2-1/2	P-13	B-19	T-29
450 MCM 300 Weld 259/.0368 703/.0224 889/.0201	BCU-045	1-3/8	2-7/8	P-13	—	T-29

(continued on next page)

Copper
PENN-CRIMPS



TYPE BCU *Continued from preceding page.*

Copper Conductor	Catalog Number	B	L	Crimping Tool Ref. No. (See Pages F-55 & F-56)			Copper Conductor	Catalog Number	B	L	Crimping Tool Ref. No. (See Pages F-55 & F-56)		
				Penn-Union	Burndy	T&B					Penn-Union	Burndy	T&B
500 MCM 500 Navy 350 Weld 259/.0393 427/.0306 925/24	BCU-050	1-3/8	2-7/8	P-14	B-20	T-11	800 MCM 800 Navy 427/.0375 427/.039 703/.0304	BCU-080	1-5/8	3-3/8	P-17	B-25	T-32
600 MCM 400 Weld 259/.0417 259/.0439 427/.0325 703/.0253 1100/24	BCU-060	1-3/8	2-7/8	P-15	B-22	T-30	900 MCM 427/.0405 703/.0316 1925/24	BCU-090	1-7/8	3-7/8	P-17	—	T-33
							1000 MCM 1000 Navy 427/.0419 703/.0327	BCU-100	1-7/8	3-7/8	P-18	B-27	T-14
650 MCM 650 Navy 427/.0342 1325/24	BCU-065	1-3/8	2-7/8	P-15	—	T-12	1500 MCM	BCU-150	2	4-1/8	P-19	B-31	—
							2000 MCM	BCU-200	2-1/4	4-5/8	P-20	B-34	—
750 MCM 500 Weld 703/.0285 703/.0292 1600/24	BCU-075	1-5/8	3-3/8	P-16	B-24	T-31							

Copper and Aluminum
PENN-CRIMP LUGS and SPLICES

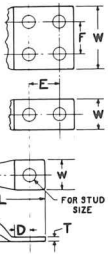
For cable ranges from #8 stranded thru 2,000 MCM.

LISTINGS FOR THESE STYLES BEGIN ON PAGE F-38, THIS SECTION.

Copper PENN-CRIMPS

TYPE BBLU

Long Barrel Lugs for #6 Stranded thru 2000 MCM



Double length barrel permits two crimps in the larger sizes for additional assurance on heavy duty loads. Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. End of cable is protected from environmental hazards by completely closed transition.

Complete catalog number and conductor sizes marked on every piece insures positive identification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.

1 HOLE LUGS

Catalog Number	Copper Conductor (Commercial Stranding)*	Stud Size	DIMENSIONS IN INCHES						No. of Crimps	Crimping Tool Reference No. (See Pages F-55 & F-56)		
			B	W	D Min.	E&F	L	T		Penn-Union	Burndy	T & B
BBLU 6S	6	¼	1 1/8	15/32	.344	—	2 1/16	.08	1	P2	B7	T1
BBLU 4S	4	¼	1 1/8	½	.344	—	2 1/16	.09	1	P3	B8	T1
BBLU 2S	2	5/16	1 1/4	5/8	.375	—	2 5/16	.10	1	P4	B10	T2
BBLU 1S	1	5/16	1 3/8	11/16	.375	—	2 1/2	.10	1	P5	B11	T2
BBLU 1/0S	1/0	5/16	1 3/4	3/4	.375	—	2 17/32	.12	1	P6	B12	T3
BBLU 2/0S	2/0	3/8	1 1/2	27/32	.438	—	2 27/32	.11	1	P7	B13	T4
BBLU 3/0S	3/0	½	1 1/2	29/32	.563	—	3 1/8	.12	1	P8	B14	T5
BBLU 4/0S	4/0	½	1 5/8	1 1/32	.563	—	3 5/16	.13	1	P9	B15	T6
BBLU 025S	250 MCM	½	1 5/8	1 1/8	.563	—	3 3/8	.14	1	P10	B16	T7
BBLU 030S	300 MCM	½	2	1 7/32	.563	—	3 35/64	.15	2	P11	B17	—
BBLU 035S	350 MCM	½	2	1 5/16	.563	—	3 37/64	.17	2	P12	B18	—
BBLU 040S	400 MCM	5/8	2 1/8	1 13/32	.719	—	4 3/32	.19	2	P13	B19	—
BBLU 050S	500 MCM	5/8	2 1/4	1 17/32	.719	—	4 1/2	.23	2	P14	B20	—
BBLU 060S	600 MCM	5/8	2 11/16	1 11/16	.719	—	5 1/8	.26	2	P15	B22	—
BBLU 075S	750 MCM	5/8	2 7/8	1 29/32	.719	—	5 3/8	.27	2	P16	B24	—
BBLU 080S	800 MCM	5/8	2 15/16	1 31/32	.719	—	5 11/16	.30	2	P17	B25	—
BBLU 100S	1000 MCM	5/8	3	2 3/16	.719	—	6	.33	2	P18	B27	—
BBLU 150S	1500 MCM	¾	3 3/16	2 11/16	1.063	—	6 11/16	.37	2	P19	B31	—
BBLU 200S	2000 MCM	¾	3 5/16	3 1/16	1.063	—	7 7/16	.46	2	P20	B34	—

2 HOLE LUGS

BBLU 6D	6	¼	1 1/8	15/32	.344	5/8	2 21/32	.08	1	P2	B7	T1
BBLU 4D	4	¼	1 1/8	½	.344	5/8	2 23/32	.09	1	P3	B8	T1
BBLU 2D	2	5/16	1 1/4	5/8	.375	¾	3 3/32	.10	1	P4	B10	T2
BBLU 1D	1	5/16	1 3/8	11/16	.375	¾	3 3/8	.10	1	P5	B11	T2
BBLU 1/0D	1/0	5/16	1 3/8	3/4	.375	7/8	3 7/16	.12	1	P6	B12	T3
BBLU 2/0D	2/0	½	1 1/2	27/32	.563	1 3/4	5 1/32	.11	1	P7	B13	T4
BBLU 3/0D	3/0	½	1 1/2	29/32	.563	1 3/4	5 3/32	.12	1	P8	B14	T5
BBLU 4/0D	4/0	½	1 5/8	1 1/32	.563	1 3/4	5 5/32	.13	1	P9	B15	T6
BBLU 025D	250 MCM	½	1 5/8	1 1/8	.563	1 3/4	5 5/16	.14	1	P10	B16	T7
BBLU 030D	300 MCM	½	2	1 7/32	.563	1 3/4	5 3/4	.15	2	P11	B17	—
BBLU 035D	350 MCM	½	2	1 5/16	.563	1 3/4	5 23/32	.17	2	P12	B18	—
BBLU 040D	400 MCM	½	2 1/8	1 13/32	.563	1 3/4	5 31/32	.19	2	P13	B19	—
BBLU 050D	500 MCM	½	2 1/4	1 17/32	.563	1 3/4	6 3/16	.23	2	P14	B20	—
BBLU 060D	600 MCM	½	2 11/16	1 11/16	.563	1 3/4	6 23/32	.26	2	P15	B22	—
BBLU 075D	750 MCM	½	2 7/8	1 29/32	.563	1 3/4	7	.27	2	P16	B24	—
BBLU 080D	800 MCM	½	2 15/16	1 31/32	.563	1 3/4	7 3/32	.30	2	P17	B25	—

*For sizes or strandings not listed, please refer to factory.

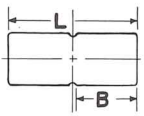
(Continued on next page)

Copper PENN-CRIMPS

TYPE BBLU *Continued from preceding page.*

2 HOLE LUGS

Catalog Number	Copper Conductor (Commercial Stranding)*	Stud Size	DIMENSIONS IN INCHES B	W	D Min.	E&F	L	T	No. of Crimps	Crimping Tool Reference No. (See Pages F-55 & F-56) Penn-Union	Burndy	T & B
BBLU 100D	1000 MCM	1/2	3	2 3/16	.563	1 1/4	6 5/16	.33	2	P18	B27	—
BBLU 100D1	1000 MCM	1/2	3	2 3/16	.563	1 3/4	7 3/32	.33	2	P18	B27	—
BBLU 150D	1500 MCM	1/2	3 3/16	2 11/16	.563	1 3/4	7 1/16	.37	2	P19	B31	—
BBLU 150D1	1500 MCM	1/2	3 3/16	2 11/16	.563	1 3/4	7 25/32	.37	2	P19	B31	—
BBLU 200D	2000 MCM	1/2	3 7/16	3 1/16	.563	1 1/2	7 13/16	.46	2	P20	B34	—
BBLU 200D1	2000 MCM	1/2	3 7/16	3 1/16	.563	1 3/4	8 5/16	.46	2	P20	B34	—
4 HOLE LUGS												
BBLU 100F	1000 MCM	3/8	3	2 3/16	.438	1 1/8	6 1/16	.33	2	P18	B27	—
BBLU 150F	1500 MCM	1/2	3 3/16	2 11/16	.563	1 3/8	7 1/16	.37	2	P19	B31	—
BBLU 200F	2000 MCM	1/2	3 7/16	3 1/16	.563	1 1/2	7 11/16	.46	2	P20	B34	—



PENN-CRIMPS

TYPE BBCU

Long Barrel Splices for #6 Stranded thru 2000 MCM

Double length barrel permits two crimps in the larger sizes for additional assurance on heavy duty loads. Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Positive cable stops insure proper insertion of conductors to full depth.

Complete catalog number and conductor size marked on every piece to insure positive identification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.

Catalog Number	Copper Conductor (Commercial Stranding)*	B	L	No. of Crimps Per End	Crimping Tool Reference No. (See Pages F-55 & F-56) Penn-Union	Burndy	T & B
BBCU 6	6	1 1/8	2 3/4	1	P2	B94	T1
BBCU 4	4	1 1/8	2 3/4	1	P3	B95	T1
BBCU 2	2	1 1/4	2 3/4	1	P4	B97	T2
BBCU 1	1	1 3/8	2 7/8	1	P5	B98	T2
BBCU 1/0	1/0	1 3/8	2 7/8	1	P6	B99	T3
BBCU 2/0	2/0	1 1/2	3 1/8	1	P7	B100	T4
BBCU 3/0	3/0	1 1/2	3 1/8	1	P8	B101	T5
BBCU 4/0	4/0	1 5/8	3 3/8	1	P9	B15	T6
BBCU 025	250 MCM	1 5/8	3 3/4	1	P10	B16	T7
BBCU 030	300 MCM	2	4 1/8	2	P11	B17	—
BBCU 035	350 MCM	2	4 1/8	2	P12	B18	—
BBCU 040	400 MCM	2 1/8	4 3/8	2	P13	B19	—
BBCU 050	500 MCM	2 1/4	4 5/8	2	P14	B20	—
BBCU 060	600 MCM	2 11/16	5 1/2	2	P15	B22	—
BBCU 075	750 MCM	2 7/8	5 7/8	2	P16	B24	—
BBCU 080	800 MCM	2 15/16	6	2	P17	B25	—
BBCU 100	1000 MCM	3	6 1/4	2	P18	B27	—
BBCU 150	1500 MCM	3 3/16	6 1/2	2	P19	B31	—
BBCU 200	2000 MCM	3 7/16	7	2	P20	B34	—

*For sizes or strandings not listed, please refer to factory.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper PENN-CRIMPS

TYPE BCM

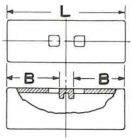
Single Crimp Splices for AN8 thru AN4/0

Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Inspection window insures full insertion.

All excess weight removed, yet full crimping length retained.

Complete catalog number and conductor size marked on every piece to insure positive identification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.



Aircraft Conductor Size*	Copper Conductor (Commercial Stranding) *	Catalog Number	B	L	O.D.	Crimping Tool Reference No. (See Pages F-55 & F-56)		
						Penn-Union	Burndy	T & B
AN #8	8	BCM 8	3/8	1 1/16	.26	P1	B6-11	T1
AN #6	---	BCM 6	13/32	1 3/32	.30	P1	B6-11	T1
AN #4	---	BCM 4	1/2	1 7/32	.37	P1	B6-11	T1
AN #2	1	BCM 2	17/32	1 3/8	.48	P1	B6-11	T1
AN #1	1/0	BCM 1	5/8	1 37/64	.51	P1	B6-11	T1
AN1/0	2/0	BCM 1/0	11/16	1 45/64	.56	P1	B6-11	T1
AN2/0	---	BCM 2/0	3/4	1 27/32	.62	P1	B6-11	T1
AN3/0	4/0	BCM 3/0	3/4	1 7/8	.70	P1	B6-11	T1
AN4/0	---	BCM 4/0	7/8	2 1/8	.75	P57	B46	T8

*For sizes or strandings not listed, please refer to factory.

CRIMPING TOOLS

CATALOG NUMBERS TMT-1 & TMT-2

CATALOG NO. TMT-1. This model will crimp lugs and splices from #8 through 4/0 AWG. A sturdy, compound leverage tool which exerts six tons of indenting pressure for the 4/0 sizes; yet, when set for smaller cable sizes, the correct indenting pressure is applied at the completion of each stroke. Plastic covered handles. Approximate weight 6 1/2 lbs.

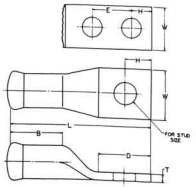
CATALOG NO. TMT-2. Same engineered features as above tool, except it is built on a smaller scale to accommodate sizes #8 through 1/0. The smaller size makes it easier to manipulate in close quarters. Approx. weight 3 1/2 lbs.

Aluminum
PENN-CRIMPS
TYPE BLUA
Crimp Lugs for #6 Stranded thru 2000 MCM Copper or Aluminum Wire or Cable

Seamless, one piece, pure aluminum construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. The barrels are filled with Cual-Aid and capped at factory to eliminate the need for separate application of Cual-Aid to the conductor. Inserting the conductor thru the plastic cap squeezes Cual-Aid between the strands before crimping. This assures a stable, cool running joint. End of cable is protected from environmental hazards by completely closed transition.

Complete catalog number and conductor size marked on every piece to insure positive indentification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.



Aluminum Conductor (Commercial Stranding)*	Stdu Size	Number of holes in Tongue	Catalog Number	DIMENSIONS IN INCHES							Crimping Tools Ref. No. (See Pages F-55 & F-56)			
				L	B	D	E	H	T	W	Penn-Union	Burndy		
												Die Index	Die Type	T & B
#8	1/4	1	BLUA-8S	1-9/16	9/16	5/8	---	1/4	1/8	1/2		374	NEST INDENTOR	
												374	DIE SET	
#6	1/4 5/16 3/8	1 1 1	BLUA-6S BLUA-6S2 BLUA-6S1	1-3/4 1-53/64 1-63/64	3/4	45/64 25/32 15/16	--- --- ---	11/32 3/8 7/16	7/64	21/32	P-30	346 346, 161	NEST INDENTOR DIE SET	T-8
#4	1/4 5/16 3/8	1 1 1	BLUA-4S3 BLUA-4S2 BLUA-4S4	1-53/64 1-57/64 2-3/64	7/8	23/32 25/32 15/16	--- --- ---	11/32 3/8 7/16	1/8	13/16	P-31	375 375, 162	NEST INDENTOR DIE SET	T-8
#2	1/4 5/16 3/8 1/2	1 1 1 1	BLUA-2S3 BLUA-2S4 BLUA-2S BLUA-2S1	1-29/32 1-32/32 2-3/32 2-9/16	7/8	23/32 25/32 29/32 1-3/8	--- --- --- ---	11/32 3/8 7/16 11/16	7/32	23/32 23/32 7/8 7/8	P-32	348 348, 163, 239	NEST INDENTOR DIE SET	T-8
#1	1/4 5/16 3/8 1/2 1/2	1 1 1 1 2	BLUA-1S1 BLUA-1S3 BLUA-1S BLUA-1S2 BLUA-1D1	1-59/64 1-61/64 2-17/32 2-33/64 4-3/64	29/32	25/32 27/32 1-25/64 1-3/8 2-29/32	--- --- --- --- 1-3/4	11/32 3/8 7/16 11/16 9/16	3/16	25/32 25/32 25/32 7/8 7/8	P-33	471 471, 163	NEST INDENTOR DIE SET	T-8
1/0	1/4 5/16 3/8 3/8 3/8 1/2 1/2	1 1 1 2 2 1 2	BLUA-1/0S2 BLUA-1/0S3 BLUA-1/0S BLUA-1/0D1 BLUA-1/0D2 BLUA-1/0S1 BLUA-1/0D3	2-3/32 2-9/32 2-7/32 3-17/32 3-27/32 2-5/8 4-9/16	1	25/32 27/32 29/32 1-7/8 2-3/16 1-3/8 2-29/32	--- --- --- 1 1-1/16 --- 1-3/4	11/32 3/8 7/16 3/8 5/8 11/16 9/16	13/64	27/32 27/32 27/32 27/32 27/32 15/16 15/16	P-34	296 296 241,	NEST INDENTOR DIE SET	T-8
2/0	1/4 5/16 3/8 3/8 1/2 1/2	1 1 1 2 1 2	BLUA-2/0S4 BLUA-2/0S5 BLUA-2/0S6 BLUA-2/0D2 BLUA-2/0S BLUA-2/0D	2-1/4 2-5/16 2-15/32 3-3/8 2-5/8 4-21/32	1-3/32	25/32 27/32 1 1-7/8 1-5/32 2-29/32	--- --- --- 1 --- 1-3/4	11/32 3/8 7/16 3/8 9/16 9/16	1/4	15/16	P-35	297 297, BG, 245	NEST INDENTOR DIE SET	T-8

*For sizes or strandings not listed, please refer to factory.

(Continued next page)

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum
PENN-CRIMPS

TYPE BLUA *Continued from preceding page*

Aluminum Conductor (Commercial Standing)*	Stud Size	Number of holes in Tongue	CATALOG NUMBER	DIMENSIONS IN INCHES							Crimping Tool Ref. No. (See Pages F-55 & F-56)			
				L	B	D	E	H	T	W		BURNDY		
											Penn-Union	Die Index	Die Type	T & B
3/0	5/16 3/8 3/8 1/2 1/2	1 1 2 1 2	BLUA-3/0S5 BLUA-3/0S2 BLUA-3/0D1 BLUA-3/0S BLUA-3/0D	2-19/32 2-13/16 3-29/32 2-29/32 4-15/16	1-1/4	27/32 1-1/16 1-7/8 1-5/32 2-29/32	- - - - - - 1 - - - 1-3/4	3/8 7/16 3/8 9/16 9/16	9/32	1-1/16	P-36	467 467 166,	NEST INDENTOR DIE SET	T-8
4/0	5/16 3/8 3/8 1/2 1/2 5/8	1 1 2 1 2 1	BLUA-4/0S3 BLUA-4/0S2 BLUA-4/0D2 BLUA-4/0S BLUA-4/0D BLUA-4/054	2-21/32 2-7/8 4-7/32 2-31/32 5-1/16 3-9/32	1-5/16	27/32 1-1/16 2-1/16 1-5/32 2-29/32 1-15/32	- - - - - - 1 - - - 1-3/4 - - -	3/8 3/8 7/16 9/16 9/16 23/32	5/16	1-3/16	P-37	298 298 660	NEST INDENTOR DIE SET	T-8
250 MCM	3/8 3/8 1/2 1/2 5/8	1 2 1 2 1	BLUA-025S2 BLUA-025D1 BLUA-025S BLUA-025D BLUA-025S3	3 4 3-7/16 4-27/32 3-7/16	1-13/32	1-1/16 2-1/16 1-1/2 2-29/32 1-1/2	- - - 1 - - - 1-3/4 - - -	3/8 7/16 5/8 9/16 23/32	11/32	1-9/32	P-38	324 324 249 658	NEST INDENTOR DIE SET	T-8
300 MCM	3/8 3/8 1/2 1/2 5/8	1 2 1 2 1	BLUA-030S2 BLUA-030D1 BLUA-030S1 BLUA-030D BLUA-030S	3-7/16 4-15/32 3-11/16 5-5/16 3-21/32	1-1/2	1-1/4 2-1/16 1-1/2 2-29/32 1-15/32	- - - 1 - - - 1-3/4 - - -	3/8 7/16 11/16 9/16 23/32	3/8	1-3/8	P-39	470 470 251	NEST INDENTOR DIE SET	T-9
350 MCM	3/8 1/2 1/2 5/8	2 1 2 1	BLUA-035D1 BLUA-035S1 BLUA-035D BLUA-035S	4-7/16 3-7/8 5-9/32 3-7/8	1-5/8	2-1/16 1-1/2 2-29/32 1-1/2	1 - - - 1-3/4 - - -	7/16 11/16 9/16 11/16	3/8	1-17/32	P-40	299 299 705 654	NEST INDENTOR DIE SET	T-350
400 MCM	3/8 1/2 1/2 5/8 5/8	2 1 2 1 2	BLUA-040D1 BLUA-040S2 BLUA-040D2 BLUA-04053 BLUA-040D	5-3/32 4-17/32 6-13/32 4-27/32 6-1/4	1-13/16	2-1/16 1-1/2 3-3/8 1-13/16 3-7/32	1 - - - 1-3/4 - - - 1-3/4	7/16 11/16 3/4 7/8 23/32	7/16	1-5/8	P-41	472 472 490	NEST INDENTOR DIE SET	T-11
500 MCM	3/8 1/2 1/2 5/8 5/8	2 1 2 1 2	BLUA-050D1 BLUA-05052 BLUA-050D2 BLUA-05053 BLUA-050D	4-7/8 4-5/16 6-3/16 4-5/8 6-1/32	1-7/8	2-1/16 1-1/2 3-3/8 1-13/16 3-7/32	1 - - - 1-3/4 - - - 1-3/4	7/16 11/16 3/4 7/8 23/32	15/32	1-13/16	P-42	300 300 M	NEST INDENTOR DIE SET	T-12
600 MCM	3/8 1/2 5/8 5/8	2 2 1 2	BLUA-060D1 BLUA-060D2 BLUA-0605I BLUA-060D	5-3/16 6-11/32 5-5/32 6-11/32	2	2-1/16 3-7/32 2-1/32 3-7/32	1 1-3/4 - - - 1-3/4	7/16 3/4 1 23/32	33/64	1-13/32	P-43	473 473 318	NEST INDENTOR DIE SET	T-13
750 MCM	1/2 5/8 5/8	2 1 2	BLUA-075D1 BLUA-075S1 BLUA-075D	6-13/32 5-3/8 6-13/32	2-1/4	3-7/32 2-3/16 3-7/32	1-3/4 - - - 1-3/4	3/4 1 23/32	9/16	2-3/16	P-44	301 301 608	NEST INDENTOR DIE SET	T-14
800 MCM	1/2 5/8 5/8	2 1 2	BLUA-080D1 BLUA-0805I BLUA-080D	7-1/8 6-13/32 7-1/8	2-5/16	3-7/32 2-1/2 3-7/32	1-3/4 - - - 1-3/4	3/4 1 23/32	19/32	2-1/4	P-45	474 474 667	NEST INDENTOR DIE SET	T-15
1000 MCM	1/2 5/8 5/8	2 1 2	BLUA-100D2 BLUA-100S1 BLUA-100D	7-7/16 6-23/32 7-7/16	2-9/16	3-7/32 2-1/2 3-7/32	1-3/4 - - - 1-3/4	3/4 1 23/32	11/16	2-1/2	P-46	302 302 292	NEST INDENTOR DIE SET	T-16
1500 MCM	5/8	2	BLUA-150D	8-1/2	3-3/16	3-7/32	1-3/4	23/32	13/16	3-1/16	P-47	478 478 422	NEST INDENTOR DIE SET	
2000 MCM	5/8	2	BLUA-200D	9-1/4	3-11/16	3-7/16	1-3/4	23/32	15/16	3-15/32	P-48	479 479 422	NEST INDENTOR DIE SET	

* For sizes or strandings not listed, please refer to factory.

Aluminum

PENN-CRIMPS

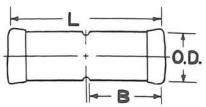
TYPE BCUA

Crimp Splices for #6 Stranded thru 2000 MCM
Copper or Aluminum Wire or Cable

Seamless, one piece, pure aluminum construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. The barrels are filled with Cual-Aid and capped at factory to eliminate the need for separate application of Cual-Aid to the conductor. Inserting the conductor thru the plastic cap squeezes Cual-Aid between the strands before crimping. This assures a stable, cool running joint. Positive cable stops insure proper insertion.

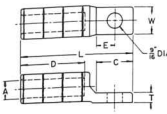
Complete catalog number and conductor size marked on every piece to insure positive identification.

Can be installed with existing crimping tools. See tool reference list for detailed recommendations.

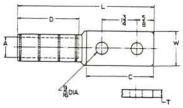


Catalog Number	Aluminum Conductor (Commercial Stranding)*	DIMENSIONS IN INCHES			Crimping Tool Reference No. (See Pages F-55 & F-56)			
		O.D.	B	L	Penn-Union	BURNDY		T & B
						Die Index	Die Type	
BCUA 6	6	11/32	3/4	1-5/8	P30	346 346, 161	NEST INDENTOR DIE SET	T8
BCUA 4	4	7/16	7/8	1-7/8	P31	375 375, 162	NEST INDENTOR DIE SET	T8
BCUA 2	2	17/32	1-1/8	2-3/8	P32	348 348, 163, 239	NEST INDENTOR DIE SET	T8,
BCAU 1	1	17/32	29/32	1-15/16	P33	471 471, 163	NEST INDENTOR DIE SET	T8
BCUA 1/0	1/0	19/32	1	2-1/8	P34	296 296, 241	NEST INDENTOR DIE SET	T8
BCUA 2/0	2/0	11/16	1-3/32	2-5/16	P35	297 297, BG, 245	NEST INDENTOR DIE SET	T8
BCUA 3/0	3/0	3/4	1-1/4	2-5/8	P36	467 467, 166	NEST INDENTOR DIE SET	T8
BCUA 4/0	4/0	27/32	1-15/16	2-3/4	P37	298 298, 660	NEST INDENTOR DIE SET	T8
BCUA 025	250 MCM	15/16	1-13/32	2-15/16	P38	324 324, 249, 658	NEST INDENTOR DIE SET	T8
BCUA 030	300 MCM	1	1-1/2	3-1/8	P39	470 470, 251	NEST INDENTOR DIE SET	T9
BCUA 035	350 MCM	1-1/8	1-5/8	3-3/8	P40	299 299, 705, 654	NEST INDENTOR DIE SET	T10
BCUA 040	400 MCM	1-3/16	1-13/16	3-3/4	P41	472 472, 490	NEST INDENTOR DIE SET	T11
BCUA 050	500 MCM	1-5/16	1-7/8	3-7/8	P42	300 300, M	NEST INDENTOR DIE SET	T12
BCUA 060	600 MCM	1-7/16	2	4-1/8	P43	473 473, 318	NEST INDENTOR DIE SET	T13
BCUA 075	750 MCM	1-19/32	2-1/4	4-5/8	P44	301 301, 608	NEST INDENTOR DIE SET	T14
BCUA 080	800 MCM	1-21/32	2-15/16	4-3/4	P45	474 474, 667	NEST INDENTOR DIE SET	T15
BCUA 100	1000 MCM	1-27/32	2-9/16	5-1/4	P46	302 302, 292	NEST INDENTOR DIE SET	T16
BCUA 150	1500 MCM	2-1/4	3-3/16	6-1/2	P47	478 478, 422	NEST INDENTOR DIE SET	
BCUA 200	2000 MCM	2-19/32	3-11/16	7-1/2	P48	479 479, 422	NEST INDENTOR DIE SET	

Aluminum
COMPRESSION TERMINALS
TYPES FKLA, FSLA & FULA Side Formed



These terminals are of EC grade high purity aluminum. They are etched and grease coated to provide oxide free, clean metallic contact surfaces. Cable grooves are filled with Cual-Aid. Polyethylene color coded caps conform to industry standards. Crimping the barrel wipes the Cual-Aid's particles across the contact surfaces and insures a tightly-gripping, high conductivity joint. The non-flowing vehicle in Cual-Aid seals air and moisture out of the joint.



Catalog Number (Fig. 1)	CONDUCTOR SIZE				DIMENSIONS IN INCHES					Die Size	No. of Crimps
	Aluminum or Copper										
	Stranded and Compressed	Compact	Sol	ACSR	C	D	L	T	W		
FKLA-W8-S FKLA-W-6-S FKLA-W4-S	10 8 6	---- --- 6	.8 6 4	--- --- 6	1-3/32	1-3/8	3	1/4	7/8	BG, 5/8 or 243	3
FKLA-W2-S FKLA-R2-S FKLA-010-S	4,3 2 1/0	3 2 1/0	2 1/0 2/0	4 2 1/0							
FSLA-W2-S FSLA-R2-S FSLA-010-S FSLA-013-S	4 2,1 1/0 2/0	4 2,1 1/0 2/0	2 1,1/0 2/0 3/0	4 2 1/0 2/0	1-9/32	1-3/8	3-1/4	1/4	29/32	840 or 249	3
FSLA-017-S FSLA-025-S FSLA-030-S	3/0 4/0,250 266.8,300	3/0 4/0,250,300 266.8,300,350	4/0 --- ---	3/0 4/0 300-26/7,336.4-18/1							
FULA-010-S FULA-013-S FULA-017-S	1/0 2/0 3/0	1/0 2/0 3/0	2/0 3/0 4/0								
FULA-025-S FULA-030-S FULA-035-S	4/0,250MCM 266.8,300 336.4,350	4/0,250,300 350 400	--- --- ---	4/0 266.8-18/1 300-26/7	1-1/2	2-3/8	4-5/8	3/8	1-1/16	1-1/8-2 or 316 or 705	3
FULA-R033-S FULA-045-S FULA-050-S	397.5 400,450 500	450 500,550 600	--- --- ---	336.4-26/7 397.5-26/7 397.5-30/7,477-18/1							

Catalog Number (Fig. 2)	CONDUCTOR SIZE				DIMENSIONS IN INCHES					Die Size	No. of Crimps
	Aluminum or Copper										
	Stranded and Compressed	Compact	Sol	ACSR	C	D	L	T	W		
FULA-010-D FULA-013-D FULA-017-D	1/0 2/0 3/0	1/0 2/0 3/0	2/0 3/0 4/0	--- --- ---	3	2-3/8	5-7/8	3/8	1-1/4	1-1/8-2 or 316 or 705	3
FULA-025-D FULA-030-D FULA-035-D	4/0,250MCM 266.8,300 336.4,350	4/0,250,300 350 400	--- --- ---	4/0 266.8-18/1 300-26/7							
FULA-R033-D FULA-045-D FULA-050-D	397.5 400,450 500	450 500,550 600	--- --- ---	336.4-26/7 397.5-26/7 397.5-30/7,477-18/1							

If Terminal with hole for 3/8" stud is desired, suffix Catalog Number with "I". Example: "FKLA-W8-SI."

Aluminum

SOLDERLESS LUGS

TYPES LA

One Hole, Front Entrance
Copper or Aluminum Conductors

Fig. 2

Fig. 1

Body, fabricated from high strength aluminum alloy extrusion.

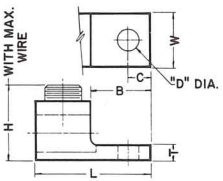
Lug is 100% re-usable using either screw driver or 5/16" hex wrench. No special tools required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply PENN-UNION "CUAL-AID" to cable before installation.)

LISTED WITH UNDERWRITER'S LABORATORIES FOR USE WITH COPPER OR ALUMINUM CONDUCTORS

Catalog Number	CONDUCTOR RANGE		Fig. No.	APPROXIMATE DIMENSIONS IN INCHES							Ctn. Qty.	Approx. Weight Per 1,000 Pieces
	Minimum	Maximum		L	W	H	T	B	C	D Dia.		
LA-6	14	6	1	1-1/16	1/2	.640	.093	11/16	1/4	17/64	50	6.6
LA-2	12	2	1	1-5/32	1/2	.755	.100	11/16	5/16	17/64	25	13.5
LA-0	14	1/0	1	1-15/32	5/8	.906	.187	27/32	7/16	17/64	25	32.6
LA-250	6	250 MCM	2	2	1	1.322	.250	1	15/32	21/64	12	98.5
LA-350	6	350 MCM	2	2-1/4	1-1/8	1.44	.250	1-1/8	1/2	13/32	12	133
LA-500	4/0	500 MCM	2	2-13/16	1-1/2	1.812	.312	1-19/32	7/8	13/32	12	256
LA-600	4/0	600 MCM	2	3-1/8	1-1/2	1-15/16	3/8	1-5/8	3/4	17/32	9	344
LA-800	350 MCM	800 MCM	2	3-1/4	1-5/8	2-1/16	1/2	1-1/2	5/8	21/32	6	432
LA-1000	500 MCM	1000 MCM	2	3-1/4	1-3/4	2-1/8	1/2	1-1/2	5/8	21/32	6	474



SPECIFICATIONS

Standard stud hole sizes and locations are shown on chart. NEMA sizes are available at no extra cost.

Standard Screws; (others available on request).
Cadmium plated steel—LA-6 and LA-2.
Aluminum—LA-0 and larger.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum

SOLDERLESS LUGS

TYPES L2A

One and Two Hole, Front Entrance
Copper or Aluminum Conductors

Fig. 2

Fig. 1

Body, fabricated from high strength aluminum alloy extrusion.

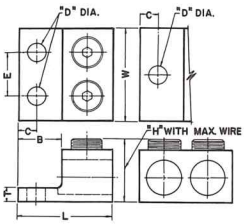
Lug is 100% re-usable using either screw driver or 5/16" hex wrench. No special tools are required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply PENN-UNION "CUAL-AID" to cable before installation).

LISTED WITH UNDERWRITER'S LABORATORIES FOR USE WITH COPPER OR ALUMINUM CONDUCTORS

Catalog Number	CONDUCTOR RANGE		Fig. No.	APPROXIMATE DIMENSIONS IN INCHES								Ctn. Qty.	Approx. Weight Per 1,000 Pieces
	Minimum	Maximum		L	W	H	T	B	C	D Dia.	E		
L2A-0	(2) - 14	(2) - 1/0	1	1-15/32	1-1/8	29/32	3/16	27/32	7/16	17/64	–	–	–
L2A-250	(2) - 6	(2) - 250 MCM	1	2-9/16	1-5/8	1-9/32	1/4	1-9/16	7/8	25/64	—	12	230
L2A-350	(2) - 4	(2) - 350 MCM	1	2-7/8	1-15/16	1-3/8	1/4	1-3/4	7/8	9/16	–	12	296
L2A-500	(2) - 6	(2) - 500 MCM	1	3-1/8	2-5/8	1-3/4	3/8	1-5/8	3/4	21/32	–	6	582
L2A-600	(2) - 4/0	(2) - 600 MCM	1	3-1/8	2-13/16	1-15/16	3/8	1-5/8	3/4	21/32	–	6	642
L2A-800	(2) - 350 MCM	(2) - 800 MCM	2	3-1/4	3	2-1/16	1/2	1-1/2	5/8	21/32	1-3/8	4	750
L2A-1000	(2) - 500 MCM	(2) - 1000 MCM	3	3-1/4	3-1/4	2-1/8	1/2	1-1/2	5/8	21/32	1-1/2	4	784



SPECIFICATIONS

Standard stud hole sizes and locations are shown on chart. NEMA sizes are available at no extra charge.

Standard Screws are Aluminum on all lugs. (Others available on request).

Aluminum

SOLDERLESS LUGS

TYPES LA, L2A AND L3A

Two and Four Hole, Front Entrance
Copper or Aluminum Conductors

LA

L2A

L3A

Body, fabricated from high strength aluminum alloy extrusion.

Lug is 100% re-usable using hex wrench. No special tools are required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply PENN-UNION "CUAL-AID" to cable before installation).

CATALOG NUMBER	Conductor Range		Fig. No.	Dimensions in Inches			
	Minimum	Maximum		L	W	H	T
SINGLE CONDUCTOR							
LA-350-2	6	350 MCM	1	4-1/8	1-1/8	1-1/4	1/4
LA-600-2	4/0	600 MCM	1	4-1/2	1-1/2	1-5/8	3/8
LA-800-2	350 MCM	800 MCM	1	4-3/4	1-5/8	1-13/16	1/2
LA-1000-2	500 MCM	1000 MCM	1	4-3/4	1-5/8	1-13/16	1/2
TWO CONDUCTOR							
L2A-350-2	6	350 MCM	2	4-1/8	2-1/4	1-1/4	1/4
L2A-600-2	4/0	600 MCM	2	4-1/2	2-13/16	1-5/8	3/8
L2A-800-2 L2A-800-4	350 MCM	800 MCM	2 3	4-3/4	3	1-13/16	1/2
L2A-1000-2 L2A-1000-4	500 MCM	1000 MCM	2 3	4-3/4	3-1/4	1-13/16	1/2
THREE CONDUCTOR							
L3A-013-2	12	2/0	4	3-3/4	2-1/4	7/8	3/16
L3A-250-2 L3A-250-4	6	250 MCM	4 5	4	3	1-1/8	1/4
L3A-350-2 L3A-350-4	6	350 MCM	4 5	4-1/8	3-1/4	1-1/4	1/4
L3A-500-2 L3A-500-4	4/0	500 MCM	4 5	4-11/16	3-3/4	1-9/16	7/16
L3A-800-2 L3A-800-4	350 MCM	800 MCM	4 5	4-3/4	4-7/8	1-13/16	1/2

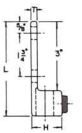


Fig. 1

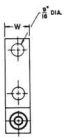


Fig. 2

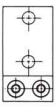


Fig. 3

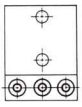


Fig. 4

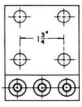


Fig. 5

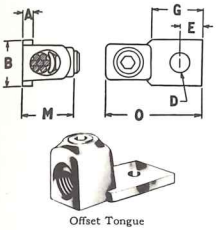
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze
VI-TITE TERMINAL LUGS

SQUARE FLANGE — ONE HOLE

Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN"

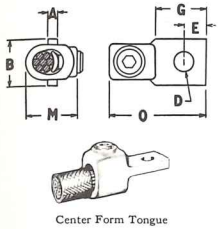
Offset Tongue



Offset Tongue

Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES							Ampere Rating
	From	To	A	B	D	E	G	M	O	
21680	14 Sol.	8 Str.	3/16	1/2	1/16	1/16	5/8	1/2	1 1/16	30
21682	8 Sol.	4 Str.	3/16	1/2	1/16	1/16	5/8	1/4	1 1/4	60
21683	4 Sol.	1 Str.	1/16	5/8	1/16	3/8	3/4	3/8	1 11/16	100
21685	2 Str.	2/0 Str.	1/4	13/16	13/16	5/16	1	1 1/16	1 3/4	150
21687	1/0 Str.	4/0 Str.	1/4	1	13/16	1/2	1 1/4	1 1/16	2 3/4	200
21689	3/0 Str.	300 M	5/16	1 5/16	17/16	3/4	1 1/2	1 3/4	2 11/16	300
21691 21692	300 M 300 M	500 M 500 M	3/4 3/4	1 1/2 1 5/8	11/16 17/16	3/4 3/4	1 5/8 1 5/8	1 13/16 1 13/16	3 3 3/16	500 500
21694	500 M	800 M	11/16	1 3/4	17/16	1	2 1/16	1 7/8	3 11/16	600
21697 21698	700 M 700 M	1000 M 1000 M	7/16 7/16	2 2	11/16 11/16	1 1 1/16	2 1/16 2 1/2	2 1/16 2 1/16	4 4	800 800
21986	1100 M	1500 M	1/2	2 1/16	15/16	1 1/16	2 1/16	2 1/16	5 1/4	1050
21987	1500 M	2000 M	5/16	2 1/2	13/16	1 3/16	2 3/4	2 11/16	5 1/16	1250

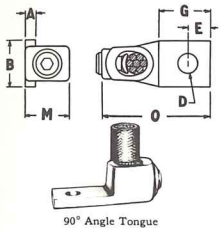
Center Form Tongue



Center Form Tongue

Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES							Ampere Rating
	From	To	A	B	D	E	G	M	O	
21700	14 Sol.	8 Str.	3/16	1/2	1/16	1/16	5/8	1/2	1 1/16	30
21702	8 Sol.	4 Str.	3/16	1/2	1/16	1/16	5/8	5/8	1 1/4	60
21703	4 Sol.	1 Str.	1/16	5/8	1/16	3/8	3/4	3/8	1 11/16	100
21705	2 Str.	2/0 Str.	1/4	13/16	13/16	7/16	1	1 1/16	1 3/4	150
21707	1/0 Str.	4/0 Str.	1/4	1	13/16	1/2	1 1/4	1 1/16	2 3/4	200
21709	3/0 Str.	300 M	5/16	1 5/16	17/16	3/4	1 1/2	1 3/4	2 11/16	300
21711 21712	300 M 300 M	500 M 500 M	3/4 3/4	1 1/2 1 5/8	11/16 17/16	3/4 3/4	1 5/8 1 5/8	1 13/16 1 13/16	3 3 3/16	500 500
21714	500 M	800 M	11/16	1 3/4	17/16	1	2 1/16	1 3/4	3 11/16	600
21717 21718	700 M 700 M	1000 M 1000 M	7/16 7/16	2 2	11/16 11/16	1 1 1/16	2 1/16 2 1/2	2 1/16 2 1/16	4 4	800 800
21988	1100 M	1500 M	1/2	2 1/16	15/16	1 1/16	2 1/16	2 5/16	5 1/4	1050
21989	1500 M	2000 M	5/16	2 1/2	13/16	1 3/16	2 3/4	2 11/16	5 1/2	1250

90° Angle Tongue



90° Angle Tongue

Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES							Ampere Rating
	From	To	A	B	D	E	G	M	O	
21740	14 Sol.	8 Str.	3/16	1/2	1/16	5/16	5/8	1/2	1 1/16	30
21742	8 Sol.	4 Str.	5/32	1/2	5/32	5/16	21/32	1/2	1 11/32	60
21743	4 Sol.	1 Str.	1/16	5/8	5/32	3/8	3/4	3/4	1 11/16	100
21745	2 Str.	2/0 Str.	1/4	13/16	13/16	7/16	1	7/8	1 3/4	150
21747	1/0 Str.	4/0 Str.	1/4	1	13/16	1/2	1 1/4	1	2 3/4	200
21749	3/0 Str.	300 M	5/16	1 5/16	17/16	3/4	1 1/2	1 3/4	2 11/16	300
21751 21752	300 M 300 M	500 M 500 M	3/4 3/4	1 1/2 1 5/8	11/16 17/16	3/4 3/4	1 5/8 1 5/8	1 13/16 1 13/16	3 3 3/16	500 500
21754	500 M	800 M	11/16	1 3/4	17/16	1	2 1/16	1 3/4	3 11/16	600
21757 21758	700 M 700 M	1000 M 1000 M	7/16 7/16	2 2	11/16 11/16	1 1 1/16	2 1/16 2 1/2	2 1/16 2 1/16	4 4	800 800
21759	1100 M	1500 M	1/2	2 1/16	15/16	1 1/16	2 1/16	2 5/16	4 5/16	1050
21993	1500 M	2000 M	5/16	2 1/2	13/16	1 3/16	2 3/16	3	5 5/16	1250

For sizes not listed, please refer to factory.

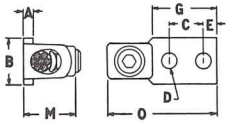
Bronze

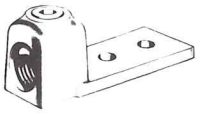
VI-TITE TERMINAL LUGS

RECTANGULAR FLANGE — TWO HOLES

Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN".

Offset Tongue

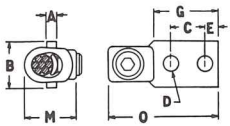


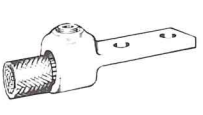


Offset Tongue

Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES								Ampere Rating
	From	To	A	B	C	D	E	G	M	O	
21761	8 Sol.	6 Str	1/4	1/2	3/4	9/32	1/4	17/16	5/8	2	60
21763	4 Sol.	1 Str.	7/32	5/8	3/4	9/32	7/32	17/16	7/8	2 1/4	100
21764	4 Sol.	1 Str.	7/32	3/4	1	7/16	7/16	2 1/16	7/8	3	100
21765	4 Sol.	1 Str.	7/32	3/4	3/4	5/16	13/32	1 5/8	7/8	2 1/2	100
21766	4 Sol.	1 Str.	7/32	1	1	7/16	13/32	2 1/8	7/8	3	100
21767	2 Str.	2/0 Str.	1/4	13/16	1	13/32	7/16	2 1/8	1	3	150
21768	2 Str.	2/0 Str.	1/4	1	1 3/4	9/16	9/16	3	1	3 7/8	150
21769	2 Str.	2/0 Str.	1/4	1	3/4	5/16	13/32	1 5/8	1	2 1/2	150
21770	2 Str.	2/0 Str.	1/4	1	1	7/16	17/32	2 1/8	1	3	150
21773	1/0 Str.	4/0 Str.	9/32	1	1	13/32	7/16	2 1/8	1 1/4	3 1/4	200
21774	1/0 Str.	4/0 Str.	9/32	1	1 3/4	9/16	9/16	3	1 1/4	4 1/4	200
21775	1/0 Str.	4/0 Str.	9/32	1	3/4	5/16	13/32	1 5/8	1 1/4	2 3/4	200
21776	1/0 Str.	4/0 Str.	9/32	1	1	7/16	17/32	2 1/8	1 1/4	3 1/4	200
21779	3/0 Str.	300 MCM	5/16	1 13/16	1	13/32	7/16	2 1/8	1 3/8	3 5/8	300
21780	3/0 Str.	300 MCM	5/16	1 13/16	1 3/4	9/16	9/16	3	1 3/8	4 1/2	300
21781	3/0 Str.	300 MCM	5/16	1 1/2	3/4	5/16	13/32	1 5/8	1 3/8	2 7/8	300
21782	3/0 Str.	300 MCM	5/16	1 1/2	1	7/16	17/32	2 1/8	1 3/8	3 5/8	300
21784	300 MCM	500 MCM	3/8	1 3/8	1	13/32	7/16	2 1/8	1 13/16	3 1/2	500
21785	300 MCM	500 MCM	3/8	1 7/8	1 3/4	9/16	9/16	3 1/2	1 13/16	4 3/4	500
21786	300 MCM	500 MCM	3/8	1 1/2	3/4	5/16	13/32	1 5/8	1 13/16	3	500
21787	300 MCM	500 MCM	3/8	1 1/2	1	7/16	17/32	2 1/8	1 13/16	3 1/2	500
21789	500 MCM	800 MCM	13/32	1 3/4	1 1/2	9/16	9/16	3	1 13/16	4 1/2	600
21790	500 MCM	800 MCM	13/32	1 3/4	1 3/4	9/16	9/16	3 1/2	1 13/16	5	600
21791	500 MCM	800 MCM	13/32	1 3/4	1	7/16	17/32	2 1/8	1 13/16	3 3/4	600
21794	700 MCM	1000 MCM	7/16	2	1 1/2	9/16	9/16	3	2 1/16	4 3/4	800
21795	700 MCM	1000 MCM	7/16	2	1 3/4	9/16	5/8	3 1/2	2 1/16	5 1/4	800
21796	700 MCM	1000 MCM	7/16	2	1	7/16	17/32	2 1/16	2 1/16	4	800

Center Form Tongue





Center Form Tongue

Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES								Ampere Rating
	From	To	A	B	C	D	E	G	M	O	
21801	8 Sol.	6 Str.	1/4	1/2	3/4	9/32	1/4	17/16	5/8	2	60
21803	4 Sol.	1 Str.	7/32	5/8	3/4	9/32	9/32	17/16	7/8	2 1/4	100
21804	4 Sol.	1 Str.	7/32	3/4	1	7/16	7/16	2 1/16	7/8	3	100
21805	4 Sol.	1 Str.	7/32	3/4	3/4	5/16	13/32	1 5/8	7/8	3 1/2	100
21806	4 Sol.	1 Str.	7/32	1	1	7/16	17/32	2 1/8	7/8	3	100
21807	2 Str.	2/0 Str.	1/4	13/16	1	13/32	7/16	2 1/8	1	3	150
21808	2 Str.	2/0 Str.	1/4	1	1 3/4	9/16	9/16	3	1	3 7/8	150
21809	2 Str.	2/0 Str.	1/4	1	3/4	5/16	13/32	1 5/8	1	2 1/2	150
21810	2 Str.	2/0 Str.	1/4	1	1	7/16	17/32	2 1/8	1	3	150
21813	1/0 Str.	4/0 Str.	9/32	1	1	13/32	7/16	2 1/8	1 1/4	3 1/4	200
21814	1/0 Str.	4/0 Str.	9/32	1	1 3/4	9/16	9/16	3	1 1/4	4 1/4	200
21815	1/0 Str.	4/0 Str.	9/32	1	3/4	5/16	13/32	1 5/8	1 1/4	2 3/4	200
21816	1/0 Str.	4/0 Str.	9/32	1	1	7/16	17/32	2 1/8	1 1/4	3 1/4	200
21819	3/0 Str.	300 MCM	5/16	1 13/16	1	13/32	7/16	2 1/8	1 3/8	3 5/8	300
21820	3/0 Str.	300 MCM	5/16	1 13/16	1 3/4	9/16	9/16	3	1 3/8	4 1/2	300
21821	3/0 Str.	300 MCM	5/16	1 1/2	3/4	5/16	13/32	1 5/8	1 3/8	2 7/8	300
21822	3/0 Str.	300 MCM	5/16	1 1/2	1	7/16	17/32	2 1/8	1 3/8	3 5/8	300
21824	300 MCM	500 MCM	3/8	1 3/8	1	13/32	7/16	2 1/8	1 13/16	3 1/2	500
21825	300 MCM	500 MCM	3/8	1 7/8	1 3/4	9/16	9/16	3 1/2	1 13/16	4 3/4	500
21826	300 MCM	500 MCM	3/8	1 1/2	3/4	5/16	13/32	1 5/8	1 13/16	3	500
21827	300 MCM	500 MCM	3/8	1 1/2	1	7/16	17/32	2 1/8	1 13/16	3 1/2	500
21829	500 MCM	800 MCM	13/32	1 3/4	1 1/2	9/16	9/16	3	1 13/16	4 1/2	600
21830	500 MCM	800 MCM	13/32	1 3/4	1 3/4	9/16	9/16	3 1/2	1 13/16	5	600
21831	500 MCM	800 MCM	13/32	1 3/4	1	7/16	17/32	2 1/16	1 13/16	3 3/4	600
21834	700 MCM	1000 MCM	7/16	2	1 1/2	9/16	9/16	3	2 1/16	4 3/4	800
21835	700 MCM	1000 MCM	7/16	2	1 3/4	9/16	5/8	3 1/2	2 1/16	5 1/4	800
21836	700 MCM	1000 MCM	7/16	2	1	7/16	17/32	2 1/16	2 1/16	4	800

For sizes not listed, please refer to factory.

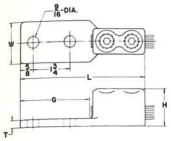
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze

VI-TITE TERMINAL LUGS

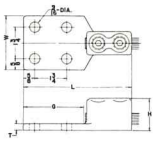
TYPES VVL & VL2

Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN".



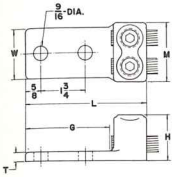
2-Hole Tongue*

TANDEM HEAD
TYPE VVL

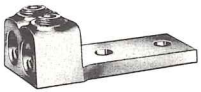


4-Hole Tongue*

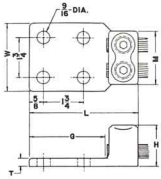
Catalog Number	CONDUCTOR SIZE Minimum	CONDUCTOR SIZE Maximum	DIMENSIONS IN INCHES 2-Hole Tongue L	W	H	G	T	Catalog Number	DIMENSIONS IN INCHES 4-Hole Tongue L	W	H	G	T
VVL-21766	4 Solid	1 Stranded	4 5/8	3/4	7/8	3	1/4	—	—	—	—	—	—
VVL-21768	2 Stranded	2/0 Stranded	4 3/4	1 1/4	1 11/32	3	1/4	—	—	—	—	—	—
VVL-21774	1/0 Stranded	4/0 Stranded	5 1/8	1	1 13/32	3	1/4	—	—	—	—	—	—
VVL-21780	3/0 Stranded	300 MCM	5 3/8	1 5/16	1 3/8	3	5/16	VVL-21917	5 3/8	3	1 3/8	3	3/8
VVL-21782	250 MCM	350 MCM	5 3/8	1 5/16	1 3/8	3	5/16	VVL-21918	5 3/8	3	1 3/8	3 1/2	7/16
VVL-21785	300 MCM	500 MCM	6 1/8	1 3/8	1 13/16	3 1/2	3/8	VVL-21919	6 1/8	3	1 13/16	3 1/2	3/8
VVL-21790	500 MCM	800 MCM	6 1/2	1 3/4	1 13/16	3 1/4	3/8	VVL-21921	6 1/2	3	1 13/16	3 1/4	3/8
VVL-21795	700 MCM	1000 MCM	6 3/4	2	2 1/16	3 1/4	7/16	VVL-21925	6 1/2	3	2 1/16	3 1/4	3/8
VVL-21797	1000 MCM	1500 MCM	7 1/4	2	2 5/16	3 1/4	5/8	VVL-21926	7 1/4	3	2 5/16	3 1/4	1/2
VVL-21799	1500 MCM	2000 MCM	8 5/8	2 1/2	2 3/4	3 1/4	5/8	VVL-21928	8 5/8	3	2 3/4	3 1/4	5/8



2-Hole Tongue*



DOUBLE HEAD
TYPE VL2



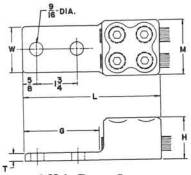
4-Hole Tongue*

Catalog Number	CONDUCTOR SIZE Minimum	CONDUCTOR SIZE Maximum	DIMENSIONS IN INCHES 2-Hole Tongue L	M	W	H	G	T	Catalog Number	DIMENSIONS IN INCHES 4-Hole Tongue L	M	W	H	G	T
VL2-21766	4 Solid	1 Stranded	3 15/16	1 3/16	3/4	7/8	3 1/2	7/32	—						
VL2-21768	2 Stranded	2/0 Stranded	4	1 1/2	1 1/2	1 11/32	3 1/2	7/32	—						
VL2-21774	1/0 Stranded	4/0 Stranded	4 1/4	1 3/4	1 3/4	1 13/32	3 1/2	1/4	—						
VL2-21780	3/0 Stranded	300 MCM	4 5/16	1 11/16	1 1/2	1 3/8	3 1/2	5/16	VL2-21917	4 5/16	1 15/16	3	1 3/8	3 1/8	5/16
VL2-21782	250 MCM	350 MCM	4 5/16	1 15/16	1 1/2	1 3/8	3 1/2	3/16	VL2-21918	4 5/16	1 15/16	3	1 3/8	3 1/8	5/16
VL2-21785	300 MCM	500 MCM	4 1/2	2 3/8	2	1 15/16	3 1/2	3/8	VL2-21919	4 7/16	2 3/8	3	1 13/16	3 1/8	3/8
VL2-21790	500 MCM	800 MCM	4 5/8	2 13/16	2 1/8	1 13/16	3 1/2	7/16	VL2-21921	4 5/8	2 13/16	3	1 13/16	3 1/4	7/16
VL2-21795	700 MCM	1000 MCM	5 5/16	3 1/8	2 3/8	2 1/16	3 1/2	1/2	VL2-21925	5 5/16	3 1/8	3 1/4	2 1/16	3 1/4	1/2
VL2-21797	1000 MCM	1500 MCM	6	4	2 7/8	2 5/16	3 1/4	5/8	VL2-21926	6	4	3 1/2	2 5/16	3 1/4	5/8
VL2-21799	1500 MCM	2000 MCM	6 1/8	4 3/8	3	2 11/16	3 1/4	3/4	VL2-21928	6 1/8	4 3/8	4	2 11/16	3 1/4	5/8

For other tongue styles and dimensions, please refer to page H-14.

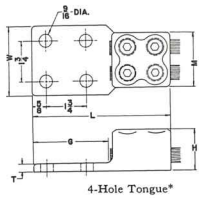
Bronze
VI-TITE TERMINAL LUGS
TYPES VVL2 & VL3

Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN".



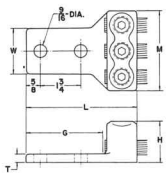
2-Hole Tongue*

DOUBLE TANDEM HEAD
TYPE VVL2

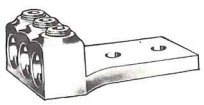


4-Hole Tongue*

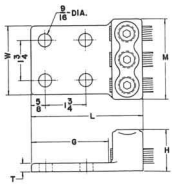
Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES 2-Hole Tongue						Catalog Number	DIMENSIONS IN INCHES 4-Hole Tongue					
	Minimum	Maximum	L	M	W	H	G	T		L	M	W	H	G	T
VVL2-21766	4 Solid	1 Stranded	4 3/4	1 1/4	1 1/2	7/8	3 1/8	1/4	—						
VVL2-21768	2 Stranded	2/0 Stranded	4 7/8	1 1/2	1 1/2	1 11/32	3 1/8	1/4	—						
VVL2-21774	1/0 Stranded	4/0 Stranded	5 1/4	1 3/4	1 3/4	1 11/32	3 1/8	1/4	—						
VVL2-21780	3/0 Stranded	300 MCM	5 1/2	1 15/16	1 1/2	1 3/8	3 1/8	5/16	VVL2-21917	5 1/2	1 15/16	3	1 3/8	3 1/8	5/16
VVL2-21782	250 MCM	350 MCM	5 1/2	1 15/16	1 1/2	1 3/8	3 1/8	5/16	VVL2-21918	5 1/2	1 15/16	3	1 3/8	3 1/8	5/16
VVL2-21785	300 MCM	500 MCM	5 3/4	2 3/8	2 3/8	1 15/16	3 1/8	3/4	VVL2-21919	5 3/4	2 3/8	3	1 15/16	3 1/8	7/8
VVL2-21790	500 MCM	800 MCM	6 1/2	2 13/16	1 3/4	1 15/16	3 1/8	1/2	VVL2-21921	6 1/2	2 13/16	3	1 15/16	3 1/8	7/16
VVL2-21795	700 MCM	1000 MCM	6 5/8	3 1/8	2 1/8	2 1/16	3 1/8	1/2	VVL2-21925	6 5/8	3 1/8	4	2 1/16	3 1/8	1/2
VVL2-21797	1000 MCM	1500 MCM	7 3/4	4 1/8	2 3/4	2 5/16	3 1/8	9/16	VVL2-21926	7 3/4	4 1/8	4	2 5/16	3 1/8	1/2
VVL2-21799	1500 MCM	2000 MCM	8	4 3/8	3	2 11/16	3 1/8	5/8	VVL2-21928	8	4 3/8	4	2 11/16	3 1/8	5/8



2-Hole Tongue*



TRIPLE HEAD
TYPE VL3



4-Hole Tongue*

Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES 2-Hole Tongue						Catalog Number	DIMENSIONS IN INCHES 4-Hole Tongue					
	Minimum	Maximum	L	M	W	H	G	T		L	M	W	H	G	T
VL3-21766	4 Solid	1 Stranded	3 15/16	1 7/8	1 1/2	7/8	3 1/8	1/4	—						
VL3-21768	2 Stranded	2/0 Stranded	4	2 5/16	1 5/8	1 11/32	3 1/8	7/32	—						
VL3-21774	1/0 Stranded	4/0 Stranded	4 1/4	2 5/8	1 7/8	1 11/32	3 1/8	1/4	—						
VL3-21780	3/0 Stranded	300 MCM	4 5/16	2 7/8	1 1/2	1 3/8	3 1/8	5/16	VL3-21917	4 5/16	2 7/8	3	1 3/8	3 1/8	5/16
VL3-21782	250 MCM	350 MCM	4 5/16	2 7/8	1 1/2	1 3/8	3 1/8	5/16	VL3-21918	4 5/16	2 7/8	3	1 3/8	3 1/8	5/16
VL3-21785	300 MCM	500 MCM	4 1/2	3 1/2	2 1/2	1 15/16	3 1/8	3/8	VL3-21919	4 7/16	3 1/2	3	1 15/16	3 1/8	3/8
VL3-21790	500 MCM	800 MCM	4 5/8	4 5/16	2 1/2	1 15/16	3 1/8	5/16	VL3-21921	4 5/8	4 5/16	3	1 15/16	3 1/8	5/16
VL3-21795	700 MCM	1000 MCM	5 5/16	4 5/8	2 1/2	2 1/16	3 1/4	1/2	VL3-21925	5 5/16	4 5/8	3	2 1/16	3 1/4	1/2
VL3-21797	1000 MCM	1500 MCM	6	6	2 1/2	2 5/16	3 1/8	5/8	VL3-21926	6	6	3 1/2	2 5/16	3 1/8	5/8
VL3-21799	1500 MCM	2000 MCM	6 1/8	6 3/4	3	2 11/16	3 1/8	5/8	VL3-21928	6 1/8	6 3/4	4	2 11/16	3 1/8	5/8

For other tongue styles and dimensions, please refer to page H-14.

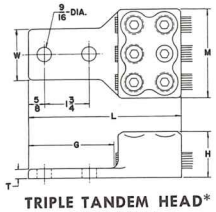
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze

VI-TITE TERMINAL LUGS

TYPE VVL3

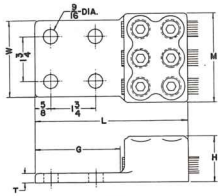
Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN".



TRIPLE TANDEM HEAD*
TYPE VVL3

2-Hole Tongue*

Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES 2-Hole Tongue					
	Minimum	Maximum	L	M	W	H	G	T
VVL3-21766 VVL3-21768	4 Solid 2 Stranded	1 Stranded 2/0 Stranded	4 3/4 4 5/8	1 7/8 2 5/16	1 1/2 1 1/2	7/8 1 1/32	3 1/8 3 1/8	1/4 1/4
VVL3-21774 VVL3-21780	1/0 Stranded 3/0 Stranded	4/0 Stranded 300 MCM	5 1/4 5 1/2	2 5/8 2 7/8	1 3/4 1 1/2	1 9/32 1 3/8	3 1/8 3 1/8	1/4 5/16
VVL3-21782 VVL3-21785	250 MCM 300 MCM	350 MCM 500 MCM	5 1/2 5 3/4	2 7/8 3 1/2	1 1/2 2 3/8	1 3/8 1 13/16	3 1/8 3 1/8	5/16 3/8
VVL3-21790 VVL3-21795	500 MCM 700 MCM	800 MCM 1000 MCM	6 1/8 6 3/8	4 3/16 4 5/8	1 3/4 2 1/8	1 13/16 2 1/16	3 1/8 3 1/8	1/2 1/2
VVL3-21797 VVL3-21799	1000 MCM 1500 MCM	1500 MCM 2000 MCM	7 3/4 8	6 6 3/4	2 3/4 3	2 5/16 2 11/16	3 1/8 3 1/8	9/16 5/8



TRIPLE TANDEM HEAD*
TYPE VVL3

4-Hole Tongue*

Catalog Number	CONDUCTOR SIZE		DIMENSIONS IN INCHES 4-Hole Tongue					
	Minimum	Maximum	L	M	W	H	G	T
VVL3-21917	3/0 Stranded	300 MCM	5 1/2	2 7/8	3	1 3/8	3 1/8	5/16
VVL3-21918 VVL3-21919	250 MCM 300 MCM	350 MCM 500 MCM	5 1/2 5 3/4	2 7/8 3 1/2	3 3	1 3/8 1 13/16	3 1/8 3 1/8	5/16 3/8
VVL3-21921 VVL3-21925	500 MCM 700 MCM	800 MCM 1000 MCM	6 1/4 6 3/8	4 3/16 4 5/8	3 4	1 13/16 2 1/16	3 1/8 3 1/8	7/16 1/2
VVL3-21926 VVL3-21928	1000 MCM 1500 MCM	1500 MCM 2000 MCM	7 3/4 8	6 6 3/4	4 4	2 5/16 2 11/16	3 1/8 3 1/8	1/2 5/8

**For other tongue styles and dimensions, please refer to page H-14.*

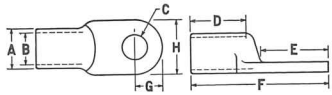
Copper

SINGLE-HOLE SOLDERING LUGS

APPROVED STANDARD

TYPE SL

Side Formed



Made of Pure Electrolytic Seamless Copper Tubing

Listed by Underwriters' Laboratories

Catalog Number	Mfg's. Size	Amp. Rating N.E.C.	Maximum Stranded Wire B & S Gauge	Approx. Weight Pounds Per 1000	No. of Pcs. Per Ctn.	APPROXIMATE DIMENSIONS IN INCHES							
						A	B	C	D	E	F	G	H
						Out-side Dia.	Dia. of Cable Hole	Stud Hole Size	Depth of Cable Hole	Lgth. of Tang	Lgth. Over-All	Center of Stud Hole to End of Tang	Width of Tang
SL-25	3/16"	25	10	4	250	3/16	.143	11/64	11/32	15/32	15/16	3/16	1/4
SL-35	1/4"	35	8	6	200	1/4	.186	13/64	11/32	1/2	1 1/32	1/2	5/16
SL-50	5/16"	50	6	12	200	5/16	.238	15/64	3/8	19/32	1 7/32	1/4	7/16
SL-70	3/8"	70	4	17	125	3/8	.289	9/32	7/16	11/16	1 3/8	9/32	17/32
SL-90	7/16"	90	2	27	100	7/16	.347	9/32	1/2	3/4	1 1/2	11/32	5/8
SL-125	1/2"	125	0	37	100	1/2	.398	‡11/32	9/16	13/16	1 3/4	13/32	3/4
SL-150	9/16"	150	00	50	100	9/16	.460	13/32	11/16	15/16	2	7/16	13/16
SL-175	5/8"	175	000	65	50	5/8	.519	†13/32	25/32	1	2 1/8	1/2	29/32
SL-225	11/16"	225	0000	85	50	11/16	.559	†13/32	27/32	1 5/32	2 3/8	17/32	31/32
SL-250	13/16"	250	250,000 CM	140	25	13/16	.660	13/32	31/32	1 1/4	2 21/32	5/8	1 3/16
SL-325	15/16"	325	400,000 CM	240	25	15/16	.776	13/32	1 3/16	1 5/8	3 3/4	3/4	1 3/8
SL-362	1"	362	450,000 CM	310	25	1	.820	13/32	1 1/4	1 3/4	3 1/2	13/16	1 13/32
SL-400	1 1/16"	400	500,000 CM	362	25	1 1/16	.88	*13/32	1 1/2	2 1/8	4 5/32	15/16	1 3/16
SL-450	1 1/8"	450	600,000 CM	425	25	1 1/8	.943	*15/32	1 1/2	2 1/4	4 7/16	1	1 5/8
SL-550	1 5/16"	550	800,000 CM	700	25	1 5/16	1.084	17/32	2	2 1/2	5 1/16	1 1/8	1 15/16
SL-650	1 7/16"	650	1,000,000 CM	800	25	1 7/16	1.21	29/32	2	2 1/2	5 3/16	1 3/16	2 1/8
SL-850	1 3/4"	850	1,500,000 CM	1500	25	1 3/4	1.46	1 1/32	2 3/8	3 1/8	6 3/8	1 5/16	2 5/8
SL-1050	2 1/16"	1050	2,000,000 CM	2625	25	2 1/16	1.66	1 1/32	2 5/8	3 3/8	7 5/8	1 5/8	3

Except when requirements are known, 25-amp. to 250-amp. will be furnished round end, and 325-amp. to 1050-amp. square end.

†These lugs can be furnished with 9/32" stud hole at no additional cost.

*These lugs can be furnished with 17/32" stud hole at no additional cost.

‡The 125-ampere lug can be furnished with a 13/32" stud hole at no additional cost.

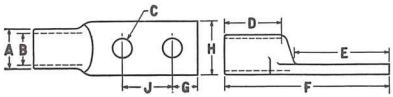
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Copper

TWO-HOLE SOLDERING LUGS

TYPE SL

Side Formed



All Penn-Union Lugs are made of highly-conductive (98% minimum) Pure Electrolytic Copper Tubing. By a special annealing process Penn-Union Lugs are insured against breaking when bent in the field. Bright, clean finish assures quick, easy soldering.

Catalog Number	Mfg's. Size	Amp. Rating N.E.C.	Maximum Stranded Wire B & S Gauge	Approx. Weight Per 1000 Pieces Two Hole	APPROXIMATE DIMENSIONS IN INCHES								
					A	B	C	D	E	F	G	H	J
					Out-side Dia.	Dia. of Cable Hole	Stud Hole Size	Depth of Cable Hole	Lgth. of Tang	Lgth. Over-All	Center of Last Stud Hole to End of Tang	Width of Tang	Space be-tween Stud Holes
SL-25-2	3/16"	25	10	5	3/16	.143	5/32	11/32	3/4	1 7/32	5/32	1/4	3/16
SL-35-2	1/4"	35	8	8	1/4	.186	3/16	11/32	7/8	1 13/32	3/16	3/8	7/16
SL-50-2	5/16"	50	6	14	5/16	.238	7/32	3/8	1 1/16	1 3/4	1/4	7/16	1/2
SL-70-2	3/8"	70	4	23	3/8	.289	1/4	7/16	1 1/4	1 29/32	5/16	1 7/32	5/8
SL-90-2	7/16"	90	2	34	7/16	.347	9/32	1/2	1 3/8	2 1/8	5/16	5/8	11/16
SL-125-2	1/2"	125	0	46	1/2	.398	11/32	9/16	1 11/16	2 3/8	3/8	3/4	7/8
SL-150-2	9/16"	150	00	68	9/16	.460	13/32	11/16	2	3 1/16	7/16	13/16	1
SL-175-2	5/8"	175	000	90	5/8	.519	13/32	25/32	2	3 1/8	7/16	29/32	1
SL-225-2	11/16"	225	0000	115	11/16	.559	13/32	27/32	2 1/8	3 1/4	1/2	31/32	1
SL-250-2	13/16"	250	250,000 CM	218	13/16	.660	17/32	31/32	2 5/8	4	5/8	1 3/16	1 1/4
SL-325-2	13/16"	325	400,000 CM	270	15/16	.776	17/32	1 3/16	2 3/4	4 1/2	1 1/16	1 3/8	1 1/4
SL-362-2	1"	362	450,000 CM	355	1	.820	17/32	1 1/4	3	4 7/8	3/4	1 13/32	1 1/4
SL-400-2	1 1/16"	400	500,000 CM	420	1 1/16	.88	21/32	1 1/2	3 1/4	5 3/16	13/16	1 3/16	1 1/2
SL-450-2	1 1/8"	450	600,000 CM	475	1 1/8	.943	21/32	1 1/2	3 3/8	5 5/16	7/8	1 5/8	1 1/2
SL-550-2	1 5/16"	550	800,000 CM	845	1 5/16	1.084	23/32	2	3 13/16	6 7/16	1	1 13/16	1 13/16
SL-650-2	1 7/16"	650	1,000,000 CM	1030	1 7/16	1.21	29/32	2	4 3/8	7 1/4	1 1/8	2 1/8	2
SL-850-2	1 3/4"	850	1,500,000 CM	1850	1 3/4	1.46	1 1/32	2 3/8	5 1/8	8 5/8	1 3/8	2 5/8	2 1/4
SL-1050-2	2 1/16"	1050	2,000,000 CM	3200	2 1/16	1.66	1 1/32	2 5/8	5 5/8	9 1/4	1 1/2	3	2 1/4

Copper

SOLDERLESS LUGS

TYPES SLU, 3SLU AND SLS

One Hole, Single Collar

TYPE SLU

TYPE 3SLU

TYPE SLS

100% Pure Electrolytic Copper for utmost efficiency

Unique design of the concave pressure bar and V-Bottom collar assures positive contact and firm, permanent grip.

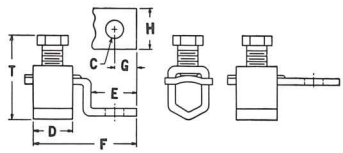
25 to 90 Amp. furnished with slotted fillister head screw.
125 Amp. furnished with slotted hex head screw.
225 Amp. and larger, furnished with slotless hex head screw.

All Screws Are Cadmium Plated

SLU Catalog Number	SLS Catalog Number	Ctn. Qty.	SLU Weight Per 1000	SLS Weight Per 1000	Ampere Rating N.E.C.	WIRE RANGE
SLU-25	SLS-25	250	12	10	25	10, 12, 14
SLU-35	SLS-35	250	22	20	35-50	6, 8, 10, 12, 14 Comb. 10 & 10, 12 & 12, 14 & 14, 10 & 12, 12 & 14
SAU-70	SAS-70	200	32	24	70	4, 6, 8, 10, 12, 14
SLU-70	SLS-70	200	50	44	70-90	2, 4, 6, 8, Comb. 8 & 4, 8 & 6
3SLU-70	3SLS-70	125	55	50	90	2, 4, 6, 8, Comb. 3 No. 8, 3 No. 6, 2 No. 4, 8 & 4 & 8, 8 & 6 & 8, 8 & 4, 8 & 6, 6 & 6, 6 & 4
SLU-125	SLS-125	100	105	96	125	1/0, 1, 2
SLU-225	SLS-225	25	240	208	225	4/0, 3/0, 2/0
SLU-300	SLS-300	20	532	424	300	350 MCM, 300 MCM, 250 MCM, 4/0, 200 MCM, 3/0, 2/0, 1/0
SLU-400	SLS-400	10	794	669	400	500 MCM, 400 MCM, 350 MCM, 300 MCM, 250 MCM, 4/0
SLU-650	SLS-650	4	1925	1760	650	1000 MCM, 900 MCM, 800 MCM, 750 MCM, 700 MCM, 600 MCM

For sizes not listed, please refer to factory.

SPECIFICATIONS



DIMENSIONS—TYPE SLU—OFFSET SHANK

Catalog Number	C	D	E	F	G	H	T
SLU-25	5/32	9/32	7/32	1	3/16	3/16	21/32
SLU-35	13/64	7/16	16/32	1 3/16	7/32	3/8	3/4
SAU-70	17/64	7/16	17/32	1 3/16	1/4	1/2	13/16
SLU-70	17/64	1/2	22/32	1 17/32	1/4	1/2	1
3SLU-70	17/64	1/2	22/32	1 17/32	1/4	1/2	1 13/32
SLU-125	17/64	5/8	15/16	1 31/32	7/16	5/8	1 11/32
SLU-225	11/32	1	1 3/32	2 3/8	1/2	1	1 13/16
SLU-300	13/32	1 1/4	1 1/2	3 3/16	1/2	1	2 3/8
SLU-400	13/32	1 1/2	1 13/16	4 1/4	15/16	1 1/2	2 3/4
SLU-650	17/32	1 7/8	1 7/8	4 5/8	1 3/16	2	3 11/16

DIMENSIONS—TYPE SLS—STRAIGHT SHANK

Catalog Number	C	D	E	F	G	H	T
SLS-25	5/32	9/32	19/32	61/64	3/16	5/16	19/32
SLS-35	13/64	7/16	41/64	1 9/64	7/32	3/8	11/16
SAS-70	17/64	7/16	22/32	1 1/4	1/4	1/2	25/32
SLS-70	17/64	1/2	13/16	1 15/32	1/4	1/2	31/32
3SLS-70	17/64	1/2	13/16	1 13/32	1/4	1/2	1 3/16
SLS-125	17/64	5/8	1 3/16	1 13/16	7/16	5/8	1 1/4
SLS-225	11/32	1	1 7/32	2 3/8	1/2	1	1 21/32
SLS-300	13/32	1 1/4	1 1/2	3 3/16	1/2	1	2 3/8
SLS-400	13/32	1 1/2	2 3/16	3 7/8	15/16	1 1/2	2 9/16
SLS-650	17/32	1 7/8	3	5 1/8	1 3/16	2	3 11/16

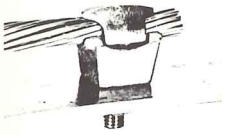
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

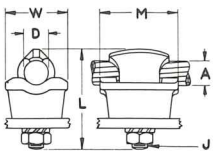
Bronze

EYEBOLT TERMINAL

TYPE LS

Single Eyebolt Type for Copper Cable to Copper Flat





A practical and highly versatile connector that may be used for numerous applications. Used extensively by all manufacturers who bring out flat studs, bus, or spades on their equipment. Used also for grounding cables to steel substation structures.

Cups (bodies) are made from corrosion resistant, high conductivity copper alloy. Eyebolts are made from a special, aluminum bronze alloy, for maximum strength and to withstand mercurous nitrate tests per specification #122.

Silicon bronze nuts and lockwashers.

FOR ¼" THICK BAR

Catalog Number	A CABLE RANGE		DIMENSIONS IN INCHES				
	Minimum	Maximum	D	J	L	M	W
LS-C1E	10 Solid	1 Str.	11/32	3/8	2 3/8	1 1/16	7/8
LSN-2/0N	8 Solid	2/0 Str.	7/16	1/2	2 3/8	1 3/8	1
LS-2/0	8 Solid	2/0 Str.	7/16	3/8	2	1 1/4	1
LSN-025N	6 Solid	250 MCM	5/8	1/2	2 9/16	1 1/4	1 1/16
LSN-035N	2 Solid	350 MCM	13/16	1/2	3 1/16	1 1/4	1 3/16
LSN-050N	1/0 Solid	500 MCM	13/16	1/2	3 1/4	1 1/4	1 7/16
LSN-075	350 MCM	750 MCM	1 1/16	1/2	3 3/16	1 1/2	1 13/32
LSN-100N	2/0 Solid	1000 MCM	1 1/4	1/2	4 1/4	1 23/32	1 11/16
LS-150E	1000 MCM	1500 MCM	1 1/2	1/2	4 3/8	2 1/4	2 1/2
LS-200E	500 MCM	2000 MCM	1 23/32	1/2	5 1/4	2 1/4	2 3/4

FOR ¼" TO ¾" THICK BAR

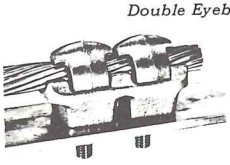
LS-C1E	10 Solid	1 Str.	11/32	3/8	2 3/8	1 1/16	7/8
LSN-2/0NE	8 Solid	2/0 Str.	7/16	1/2	2 3/4	1 3/8	1
LS-2/0E	8 Solid	2/0 Str.	7/16	3/8	2 1/2	1 1/4	1
LSN-025NE	6 Solid	250 MCM	5/8	1/2	3 1/16	1 1/4	1 1/16
LSN-035NE	2 Solid	350 MCM	13/16	1/2	3 5/16	1 1/4	1 3/16
LSN-050NE	1/0 Solid	500 MCM	15/16	1/2	3 3/4	1 1/4	1 7/16
LSN-075E	350 MCM	750 MCM	1 1/16	1/2	3 11/16	1 1/2	1 13/32
LSN-100NE	2/0 Solid	1000 MCM	1 1/4	1/2	4 1/2	1 23/32	1 11/16
LS-150E	1000 MCM	1500 MCM	1 1/2	1/2	4 3/8	2 1/4	2 1/2
LS-200E	500 MCM	2000 MCM	1 23/32	1/2	5 1/4	2 1/4	2 3/4

"N" in prefix qualifies terminal for mounting on NEMA pads.
"N" in suffix qualifies eyebolt opening to NEMA.

Bronze
EYEBOLT TERMINAL

TYPE LD

Double Eyebolt Type for Copper Cable to Copper Flat



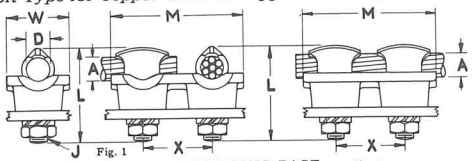


Fig. 1 Fig. 2

FOR ¼" THICK BAR FEATURES SAME AS TYPE LS ON PRECEDING PAGE.

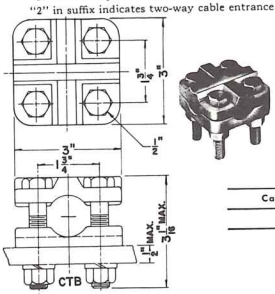
Catalog Number	A CABLE RANGE Minimum	A CABLE RANGE Maximum	Fig. No.	DIMENSIONS IN INCHES D	J	L	M	W	X
LDN-2/0N LDN-2/0N2	8 Solid 8 Solid	2/0 Str. 2/0 Str.	2 1	7/16 7/16	1/2 1/2	2 5/16 2 3/8	2 13/16 3 1/8	29/32 1 3/8	1 3/4 1 3/4
LDN-025N LD-025N2	6 Solid 6 Solid	250 MCM 250 MCM	2 1	5/8 5/8	1/2 1/2	2 3/16 2 3/8	3 3 3/8	1 1/16 1 3/8	1 3/4 1 3/4
LDN-035N LDN-050N LDN-075	2 Solid 1/0 Solid 350 MCM	350 MCM 500 MCM 750 MCM	2 2 2	13/16 15/16 1 1/16	1/2 1/2 1/2	3 5/16 3 1/4 3 3/16	3 3 3 1/4	1 5/16 1 7/16 1 15/32	1 3/4 1 3/4 1 3/4
LDN-100N LD-200E	2/0 Solid 500 MCM	1000 MCM 2000 MCM	2 2	1 1/4 1 23/32	1/2 1/2	3 13/16 5 1/4	3 7/16 4	1 11/16 2 3/4	1 3/4 1 3/4
FOR ¼" TO ¾" THICK BAR									
LDN-2/0N2E	8 Solid	2/0 Str.	1	7/16	1/2	2 7/8	3 1/8	1 3/8	1 3/4
LDN-025NE LD-025N2E	6 Solid 6 Solid	250 MCM 250 MCM	2 1	5/8 5/8	1/2 1/2	3 1/16 3 1/16	3 3 3/8	1 1/16 1 3/8	1 3/4 1 3/4
LDN-035NE LDN-050NE LDN-075E	2 Solid 1/0 Solid 350 MCM	350 MCM 500 MCM 750 MCM	2 2 2	13/16 15/16 1 1/16	1/2 1/2 1/2	3 5/16 3 3/4 3 11/16	3 3 3 1/4	1 5/16 1 7/16 1 15/32	1 3/4 1 3/4 1 3/4
LDN-100NE LD-200E	2/0 Solid 500 MCM	1000 MCM 2000 MCM	2 2	1 1/4 1 23/32	1/2 1/2	4 1/4 5 1/4	3 7/16 4	1 11/16 2 3/4	1 3/4 1 3/4

"N" in prefix qualifies terminal for mounting on NEMA pads.
"N" in suffix qualifies eyebolt opening to NEMA.
"2" in suffix indicates two-way cable entrance.

TERMINAL CONNECTOR

TYPE CTB

For Cable Range or Tubing Range to Flat Four Hole Nema Mounting



- Cast from Copper Alloy.
- Reversible, range taking, high strength cap.
- Front or side entrance available by rotating cap 90°.
- Furnished with Silicon Bronze Bolts, Nuts and Lockwashers.
- Bolts with sufficient length for mounting to a pad up to ½" thick.

Catalog Number	CABLE RANGE	I.P.S. RANGE
CTB-100	6 Sol. — 1000 MCM	⅛" — ¾" I.P.S.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze
GROUND ROD CLAMP

TYPE CAB

Made from corrosion resistant cast aluminum bronze. Furnished with silicon bronze Hexagon Head Bolt. Socket head screws can be furnished on request by suffixing catalog number with "S". For example: CAB-1S.

Catalog Number	ACCOMMODATES		Standard Package	Approximate Shipping Weight Lbs. Per 100 Pieces
	Rod Size	Wire Range		
CAB-0	3/8"	14-6 AWG	50	16
CAB-1	1/2"	10-2 AWG	50	20
CAB-2	5/8"	8-1/0 Stranded	50	30
CAB-3	3/4"	8-1/0 Stranded	25	40
CAB-4	3/4"	4/0 Stranded Only	25	45
CAB-5	1"	8-1/0 Stranded	25	60
CAB-6	1"	4/0 Stranded Only	25	65

GROUND ROD CLAMP

TYPE CEB

An economical ground rod clamp made from corrosion resistant cast aluminum bronze. Furnished with silicon bronze Hexagon Head Bolt.

Catalog Number	ACCOMMODATES		Standard Package	Approximate Shipping Weight Lbs. Per 100 Pieces
	Rod Size	Wire Range		
CEB-1	1/2"	8 sol. — 2 str.	100	9
CEB-2	5/8"	8 sol. — 2 Str.	100	11
CEB-3	3/4"	8 sol. — 2 Str.	100	13

Bronze
GROUND CLAMPS

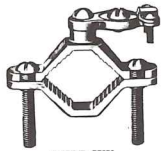
For Bonding Ground Wires to Water Pipe

Cast from high strength electrical bronze. Furnished with high strength steel plated hardware.

TYPE KP

Catalog Number	Water Pipe Size	TAP WIRE SIZE		Approx. Weight Per 100	Std. Package
		Minimum	Maximum		
KP-1	½"– ¾"–1"	#10 Solid	#4 Str.	26	100
KP-2	1¼"–1½"–2"	#10 Solid	#4 Str.	50	50
KP-4	2½"–3" 3½"–4"	#10 Solid	#4 Str.	105	20

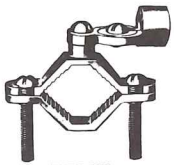
For bonding bare Copper Wire to Water Pipe or for use as Water Meter Shunt.



TYPE KW

Catalog Number	Water Pipe Size	TAP WIRE SIZE		Approx. Weight Per 100	Std. Package
		Minimum	Maximum		
KW-1	½"– ¾"–1"	#10 Solid	#6 Solid	44	50
KW-2	1¼"–1½"–2"	#10 Solid	#6 Solid	55	50
KW-4	2½"–3" 3½"–4"	#10 Solid	#6 Solid	120	20

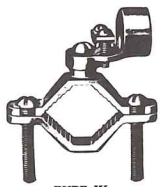
For bonding bare Armored or unarmored Ground Wire, also used with Cables or Cord. Clamp provides positive grip on Armor or outer Cable.



TYPE KH

Catalog Number	Conduit Hub Size	Water Pipe Size	TAP WIRE SIZE		Approx. Weight Per 100	Std. Package
			Minimum	Maximum		
KH-1-	½"	½"– ¾"–1"	#10 Solid	#4 Str.	50	50
KH-2	½"	1¼"–1½"–2"	#10 Solid	#4 Str.	65	50
KH-4	½"	2½"–3" 3½"–4"	#10 Solid	#4 Str.	130	20

For use with rigid Conduit. Washer provides complete protection for wire.



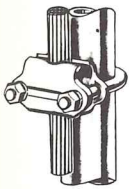
TYPE KL

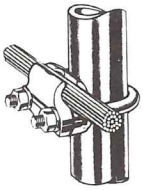
Catalog Number	Conduit Hub Size	Water Pipe Size	TAP WIRE SIZE		Approx. Weight Per 100	Std. Package
			Minimum	Maximum		
KL-1	¾"	½"– ¾"–1"	#10 Solid	2/0 Str.	60	50
KL-2	¾"	1¼"–1½"–2"	#10 Solid	2/0 Str.	70	25
KL-4	¾"	2½"–3" 3½"–4"	#10 Solid	2/0 Str.	135	10
KL-1A	1"	½"– ¾"–1"	#10 Solid	3/0 Str.	65	50
KL-2A	1"	1¼"–1½"–2"	#10 Solid	3/0 Str.	75	25
KL-4A	1"	2½"–3" 3½"–4"	#10 Solid	3/0 Str.	140	10

For use with rigid Conduit. Clamp provides a positive grip on wire. Ground fittings should be attached to water pipe ahead of water meter.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

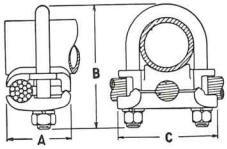
Bronze
GROUND CLAMP CONNECTOR





TYPE GPL
UNIVERSAL
PARALLEL or 90°
Cable Connection to Rod or Pipe

Made from high Copper Content Alloy. Furnished with Silicon Bronze U-Bolt, Nuts and Lockwashers.



Catalog Number	FOR USE ON		CONDUCTOR RANGE		DIMENSIONS IN INCHES			
	Rod	Pipe Size	Minimum	Maximum	A	B	C	Bolt Dia.
GPL- 1	½	¼	8 Solid	4 Stranded	1 3/16	2 1/2	1 3/4	3/8
GPL- 2	½	¼	4 Solid	2/0 Stranded	1 3/8	2 1/2	1 3/4	3/8
GPL- 3	½	¼	2/0 Solid	250 MCM	1 7/8	2 1/2		3/8
GPL- 4	⅝ or ¾	⅜	8 Solid	4 Stranded	1 3/16	2 3/4	2	3/8
GPL- 5	⅝ or ¾	⅜	4 Solid	2/0 Stranded	1 3/8	2 3/4	2	3/8
GPL- 6	⅝ or ¾	½	2/0 Solid	250 MCM	1 7/8	2 3/4	2	1/2
GPL- 7	⅝ or ¾	½	300 MCM	500 MCM	2 3/4	3 1/2	2 3/4	1/2
GPL- 8	⅞ or 1	1/2 or ¾	8 Solid	4 Stranded	1 3/16	2 5/8	2 3/4	3/8
GPL- 9	⅞ or 1	1/2 or ¾	4 Solid	2/0 Stranded	1 3/8	2 5/8	2 3/4	3/8
GPL-10	⅞ or 1	½ or ¾	2/0 Solid	250 MCM	1 7/8	3	2 3/4	3/8
GPL-11	⅞ or 1	½ or ¾	300 MCM	500 MCM	2 3/4	3 3/4	2 3/4	1/2
GPL-12	⅞ or 1	½ or ¾	500 MCM	750 MCM	2 3/4	3 3/4	2 3/4	1/2
GPL-13	⅞ or 1	½ or ¾	750 MCM	1000 MCM	3	4	3 1/2	5/8
GPL-14	...	1	8 Solid	4 Stranded	1 3/16	2 3/4	2 5/8	3/8
GPL-15	...	1	4 Solid	2/0 Stranded	1 3/8	2 3/4	2 5/8	3/8
GPL-15	...	1	2/0 Solid	250 MCM	1 7/8	3 1/4	2 5/8	3/8
GPL-17	...	1	300 MCM	500 MCM	2 3/4	4 1/2	3	1/2
GPL-18	...	1	500 MCM	750 MCM	2 3/4	4 1/2	3	1/2
GPL-19	...	1	750 MCM	1000 MCM	3	4 3/4	3 1/2	5/8
GPL-20	...	1 1/4	8 Solid	4 Stranded	1 3/16	3 1/2	3	3/8
GPL-21	...	1 1/4	4 Solid	2/0 Stranded	1 3/8	3 1/2	3	3/8
GPL-22	...	1 1/4	2/0 Solid	250 MCM	1 7/8	4 1/4	3 1/2	1/2
GPL-23	...	1 1/4	300 MCM	500 MCM	2 3/4	5	3 3/4	1/2
GPL-24	...	1 1/4	500 MCM	750 MCM	2 3/4	5 1/2	4 1/4	5/8
GPL-25	...	1 1/4	750 MCM	1000 MCM	3	5 1/2		5/8
GPL-26	...	1 1/2	8 Solid	4 Stranded	1 3/16	4	3 1/4	3/8
GPL-27	...	1 1/2	4 Solid	2/0 Stranded	1 3/8	4	3 1/4	3/8
GPL-28	...	1 1/2	2/0 Solid	250 MCM	1 7/8	4	3 1/4	3/8
GPL-29	...	1 1/2	300 MCM	500 MCM	2 3/4	4 3/8	3 5/8	1/2
GPL-30	...	1 1/2	500 MCM	750 MCM	2 3/4	5 1/4	4	5/8
GPL-31	...	1 1/2	750 MCM	1000 MCM	3	5 3/4	4 1/2	5/8
GPL-32	...	2	8 Solid	4 Stranded	1 3/16	4 1/2	3 3/4	3/8
GPL-33	...	2	4 Solid	2/0 Stranded	1 3/8	4 1/2	3 3/4	3/8
GPL-34	...	2	2/0 Solid	250 MCM	1 7/8	5 1/4	4	1/2
GPL-35	...	2	300 MCM	500 MCM	2 3/4	5 1/2	4 1/2	1/2
GPL-36	...	2	500 MCM	750 MCM	2 3/4	6	5	5/8
GPL-37	...	2	750 MCM	1000 MCM	3			
GPL-38	...	2 1/2	8 Solid	4 Stranded	1 3/16	5	4 1/4	3/8
GPL-39	...	2 1/2	4 Solid	2/0 Stranded	1 3/8	5	4 1/4	3/8
GPL-40	...	2 1/2	2/0 Solid	250 MCM	1 7/8	5	4 1/4	3/8
GPL-41	...	2 1/2	300 MCM	500 MCM	2 3/4	5 3/8	4 5/8	1/2
GPL-42	...	2 1/2	500 MCM	750 MCM	2 3/4	6	5	5/8
GPL-43	...	2 1/2	750 MCM	1000 MCM	3	6 1/2	5 1/2	5/8
GPL-44	...	3	8 Solid	4 Stranded	1 3/16	5 1/2	4 3/4	3/8
GPL-45	...	3	4 Solid	2/0 Stranded	1 3/8	5 1/2	4 3/4	3/8
GPL-46	...	3	2/0 Solid	250 MCM	1 7/8	5 1/2	4 3/4	3/8
GPL-47	...	3	300 MCM	500 MCM	2 3/4	6 1/4	5 1/4	1/2
GPL-48	...	3	500 MCM	750 MCM	2 3/4	6 3/4	5 1/2	1/2
GPL-49	...	3	750 MCM	1000 MCM	3	7 1/4	6	5/8
GPL-50	...	3 1/2	8 Solid	4 Stranded	1 3/16	6 1/2	5 1/4	3/8
GPL-51	...	3 1/2	4 Solid	2/0 Stranded	1 3/8	6 1/2	5 1/2	3/8
GPL-52	...	3 1/2	2/0 Solid	250 MCM	1 7/8	6 3/4	5 3/4	1/2
GPL-53	...	3 1/2	300 MCM	500 MCM	2 3/4	6 3/4	6	1/2
GPL-54	...	3 1/2	500 MCM	750 MCM	2 3/4	7 1/2	6	1/2
GPL-55	...	3 1/2	750 MCM	1000 MCM	3	8	6 1/2	5/8
GPL-56	...	4	8 Solid	4 Stranded	1 3/16	6 3/4	5 3/4	3/8
GPL-57	...	4	4 Solid	2/0 Stranded	1 3/8	6 3/4	5 3/4	3/8
GPL-58	...	4	2/0 Solid	250 MCM	1 7/8	6 3/4	5 3/4	1/2
GPL-59	...	4	300 MCM	500 MCM	2 3/4	8	6 1/2	1/2
GPL-60	...	4	500 MCM	750 MCM	2 3/4	8	6 1/2	5/8
GPL-61	...	4	750 MCM	1000 MCM	3	8 1/2	7	5/8

For sizes not listed, please refer to factory.

Continued on next page

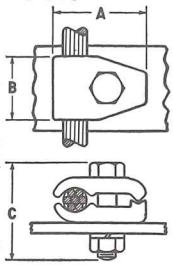
Bronze

GROUND CLAMP CONNECTORS

TYPE GM

For Clamping Cable or Wire to Flat Surface

Made from high Copper Content Alloy. Furnished with Silicon Bronze Bolt, Nut and Lockwasher.

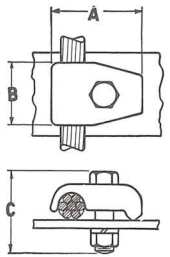


Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES			
	Minimum	Maximum	A	B	C	Bolt Dia.
GM-1	8 Solid	4 Stranded	1¼	1	1⅝	⅜
GM-2	4 Solid	2/0 Stranded	1⅝	1⅛	1¾	⅜
GM-3	2/0 Solid	250 MCM	2⅛	1½	2	½
GM-4	300 MCM	500 MCM	2⅞	1⅝	2½	½
GM-5	500 MCM	750 MCM	3	1¾	3	⅝
GM-6	750 MCM	1000 MCM	3½	1⅞	3⅛	⅝

TYPE GMS

For Clamping Cable or Wire to Flat Surface

Made from high Copper Content Alloy. Furnished with Silicon Bronze Bolt, Nut and Lockwasher.

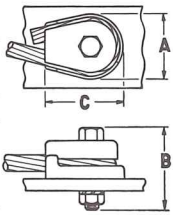


Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES			
	Minimum	Maximum	A	B	C	Bolt Dia.
GMS-1	8 Solid	4 Stranded	1¼	1	1⅝	⅜
GMS-2	4 Solid	2/0 Stranded	1⅝	1⅛	1¾	⅜
GMS-3	2/0 Solid	250 MCM	2⅛	1½	2	½
GMS-4	300 MCM	500 MCM	2⅞	1⅝	2½	½
GMS-5	500 MCM	750 MCM	3	1¾	3	⅝
GMS-6	750 MCM	1000 MCM	3½	1⅞	3⅛	⅝

TYPE GWL

For Cable to Flat Bar

Made from high Copper Content Alloy. Furnished with Silicon Bronze Bolt, Nut and Lockwasher.



Catalog Number	CONDUCTOR RANGE		DIMENSIONS IN INCHES			
	Minimum	Maximum	A	B	C	Bolt Dia.
GWL-1	8 Stranded	4 Stranded	1⅛	1½	1⅜	⅜
GWL-2	8 Stranded	4 Stranded	1¾	1¾	1⅞	½
GWL-3	3 Stranded	2/0 Stranded	1 11/16	2	1⅞	⅝
GWL-4	3 Stranded	2/0 Stranded	1 13/16	2⅛	1⅞	½
GWL-5	3/0 Stranded	250 MCM	2¼	2¼	2⅜	⅝
GWL-6	3/0 Stranded	250 MCM	2¼	2⅝	2⅜	½
GWL-7	3/0 Stranded	250 MCM	2¼	2½	2⅜	⅝

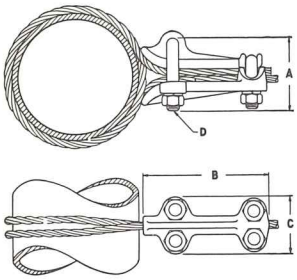
For sizes not listed, please refer to factory.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze
GROUND CLAMP CONNECTOR

TYPE GGQ

For Cable to Pipe or Column



Made from high Copper Content Alloy. Furnished with Silicon Bronze U-Bolts, Nuts and Lockwashers.

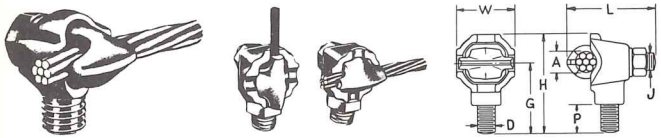
Catalog Number	CONDUCTOR RANGE		Pipe Size	DIMENSIONS IN INCHES			
	Min.	Max.		A	B	C	D
GGQ-1 GGQ-2	#4	2/0 Str.	6" Max. Above 6"	4½ 7½	5 5	2½ 2½	½ ½
GGQ-3 GGQ-4	2/0 Str.	250 MCM	6" Max. Above 6"	4½ 7½	6 6	2¾ 2¾	½ ½
GGQ-5 GGQ-6	300 MCM	500 MCM	6" Max. Above 6"	5 9	6⅝ 6⅝	2¾ 2¾	½ ½

For sizes not listed, please refer to factory.

TRANSFORMER GROUND CLAMPS

TYPES GSE AND HGSE

Eye Bolt Style



Bodies are cast from high conductivity, high strength copper alloy with cast high strength Bronze Eyebolts. Silicon Bronze nuts and lockwashers are standard on all clamps. The HGSE provides a hex or square shoulder for wrench tightening. Its flat surface also acts as a seal to the tank. The GSE may be tightened by using a wrench on the body.

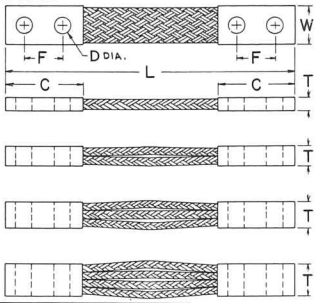
Catalog Number	A Copper Cable Range	D Stud Size	G	H	J (Eyebolt)	L	P	W
GSE-C1	10 Solid— 1 Stranded	½—13	1 5/16	1⅛	⅜—16	1 3/16	7/16	⅞
GSE-020	8 Solid—2/0 Stranded	½—13	1 1/16	1½	⅜—16	2	7/16	⅞
HGSE-C1*	10 Solid— 1 Stranded	½—13	1 5/16	1¾	⅜—16	2	15/32	1⅛
HGSE-020*	8 Solid—2/0 Stranded	½—13	1 11/16	2 3/32	⅜—16	2	15/32	1 3/16
HGSE-250*	6 Solid—250 MCM	½—13	1 5/8	2 5/8	½—13	2 5/8	15/32	1 7/8

Stud size also available in ⅜" Dia. Example: GSE-C1 (⅜"—16).
*Designates Two-way Cup.

Copper
FLEXIBLE BRAID
TYPE FXB
Tin Plated Flexible Lead

Highly flexible leads suitable for use wherever it is necessary to take up expansion. Made of flat, extra flexible, tinned, pure copper, with silver plated, seamless, pure copper ferrules cold pressed on each end. Inside ends of ferrules are rounded to prevent chafing of strands.

Sizes and combinations not shown readily supplied. Special drilling can be supplied on request. Refer to factory if different ferrule dimensions are desired. For lengths other than 12″ change catalog number suffix accordingly. For example if an 18″ length is desired change -12 to -18.



Catalog Number	No. of Braids in Ferrule	Ampere Rating Indoors*	DIMENSIONS IN INCHES					
			C	F	L	T	W	D
FXBA-12	1	200	2½	1¼	12	5/32	1	7/16
FXBA-12N	1	200	3	1¾	12	5/32	1	9/16
FXB2A-12	2	340	2½	1¼	12	7/32	1	7/16
FXB2A-12N	2	340	3	1¾	12	7/32	1	9/16
FXB3A-12	3	470	2½	1¼	12	1/4	1 1/8	7/16
FXB3A-12N	3	470	3	1¾	12	1/4	1 1/8	9/16
FXB4A-12	4	600	2½	1¼	12	5/16	1 1/8	7/16
FXB4A-12N	4	600	3	1¾	12	5/16	1 1/8	9/16
FXBB-12	1	330	3	1½	12	1/4	1	7/16
FXBB-12N	1	330	3	1¾	12	1/4	1	9/16
FXB2B-12	2	500	3	1½	12	1/4	1½	7/16
FXB2B-12N	2	500	3	1¾	12	1/4	1½	9/16
FXB3B-12	3	650	3	1½	12	3/8	1½	7/16
FXB3B-12N	3	650	3	1¾	12	3/8	1½	9/16
FXB4B-12	4	750	3	1½	12	1/2	1½	7/16
FXB4B-12N	4	750	3	1¾	12	1/2	1½	9/16
FXBC-12	1	350	3	1½	12	5/16	1½	7/16
FXBC-12N	1	350	3	1¾	12	5/16	1½	9/16
FXB2C-12	2	550	3	1½	12	1/4	1½	7/16
FXB2C-12N	2	550	3	1¾	12	1/4	1½	9/16
FXB3C-12	3	720	3	1½	12	11/32	1½	7/16
FXB3C-12N	3	720	3	1¾	12	11/32	1½	9/16
FXB4C-12	4	870	3	1½	12	1/2	1½	7/16
FXB4C-12N	4	870	3	1¾	12	1/2	1½	9/16
FXBD-12	1	360	3	1½	12	1/4	1½	7/16
FXBD-12N	1	360	3	1¾	12	1/4	1½	9/16
FXB2D-12	2	600	3	1½	12	13/32	1½	7/16
FXB2D-12N	2	600	3	1¾	12	13/32	1½	9/16
FXB3D-12	3	780	3	1½	12	13/32	1½	7/16
FXB3D-12N	3	780	3	1¾	12	13/32	1½	9/16
FXB4D-12	4	900	3	1½	12	9/16	1½	7/16
FXB4D-12N	4	900	3	1¾	12	9/16	1½	9/16
FXBE-12	1	430	3	1½	12	1/4	1½	7/16
FXBE-12N	1	430	3	1¾	12	1/4	1½	9/16
FXB2E-12	2	710	3	1½	12	1/2	1½	7/16
FXB2E-12N	2	710	3	1¾	12	1/2	1½	9/16
FXB3E-12	3	980	3	1½	12	11/16	1½	7/16
FXB3E-12N	3	980	3	1¾	12	11/16	1½	9/16
FXB4E-12	4	1200	3	1½	12	7/8	1½	7/16
FXB4E-12N	4	1200	3	1¾	12	7/8	1½	9/16

*For outdoor use, these ratings may be increased from 22% to 40% depending upon the size and position of the braid.

"N" Suffix denotes NEMA drilling.

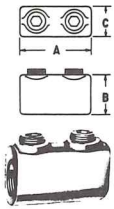
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze

VI-TITE TWO-WAY CONNECTORS

TYPE VC

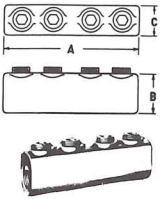
Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protuberances assure higher conductivity and better resistance to horizontal pull. All connectors are provided with cable stops. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". For use with aluminum conductors, terminals are supplied tin plated—suffix catalog number with "TN"



TWO-SCREW TYPE

Catalog Number	CONDUCTOR RANGE		DIMENSIONS In Inches			Screw Size	Hex Size
	From	To	A	B	C		
VC-26010*	14 Sol.	8 Str.	1 3/8	9/16	13/32	5/16-24	5/32
VC-26000*	8 Sol.	4 Str.	1 1/16	5/8	1/2	5/16-24	5/32
VC-26001	4 Sol.	1 Str.	1 5/8	7/8	5/8	3/8-24	7/16
VC-26002	2 Str.	2/0 Str.	1 7/8	1 3/32	3/4	1/2-20	1/4
VC-26003	1/0 Str.	4/0 Str.	2 5/16	1 3/32	7/8	5/16-18	1/4
VC-26004	3/0 Str.	300 MCM	2 5/16	1 3/8	1	3/4-16	3/8
VC-26005	300 MCM	500 MCM	2 7/8	1 13/16	1 1/4	3/4-16	3/8
VC-26006	500 MCM	800 MCM	3 1/4	1 13/16	1 7/16	7/8-14	3/8
VC-26007	700 MCM	1000 MCM	3 3/4	2 5/16	1 5/16	7/8-14	3/8

*No Saddle



FOUR-SCREW TYPE

Catalog Number	CONDUCTOR RANGE		DIMENSIONS In Inches			Screw Size	Hex Size
	From	To	A	B	C		
VC-26020*	8 Sol.	4 Str.	1 7/8	5/8	1/2	5/16-24	5/32
VC-26021	4 Sol.	1 Str.	3	7/8	5/8	3/8-24	7/16
VC-26022	2 Str.	2/0 Str.	3 1/2	1 1/32	3/4	1/2-20	1/4
VC-26023	1/0 Str.	4/0 Str.	4 3/8	1 9/32	7/8	5/16-18	1/4
VC-26024	3/0 Str.	300 MCM	4 7/8	1 3/8	1	3/4-16	3/8
VC-26025	300 MCM	500 MCM	5 5/16	1 13/16	1 1/4	3/4-16	3/8
VC-26026	500 MCM	800 MCM	6 3/16	1 13/16	1 7/16	7/8-14	3/8
VC-26027	700 MCM	1000 MCM	7 5/16	2 5/16	1 5/16	7/8-14	3/8

*No Saddle

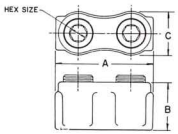
BRONZE TWO-WAY CONNECTOR

TYPE PNLC — TWO SCREW TYPE

Cable to Cable

A low cost two way connector that gives superior service. Body is cast from high strength copper alloy. Steel, cadmium plated hex socket screws. Annular serrations give higher conductivity and better resistance to horizontal pull.

All connectors are provided with cable stops. Hex head screws can be furnished on request by suffixing catalog numbers with "Hex". Connectors can be furnished electro-tinned, silver or cadmium plated as desired.



Catalog Number	CONDUCTOR RANGE		DIMENSIONS In Inches			Screw Size	Hex Size
	Minimum	Maximum	A	B	C		
PNLC 1/0	8 Sol.	1/0 Str.	1 5/8	27/32	23/32	1/2-20	1/4
PNLC 250	6 Sol.	250 MCM	2 1/8	1 1/16	31/32	3/4-16	3/8
PNLC 500	4 Sol.	500 MCM	3	1 15/32	1 3/8	15/16-16	3/8
PNLC 1000	500 MCM	1000 MCM	3 3/4	2	1 3/4	1 3/8-14	3/8

For electro-tin plating add "-TN" to catalog number. For silver add "-SV". For cadmium add "-CD"

Bronze
SERVICE POST CONNECTORS

TYPES SSS AND SCS (Male Type)

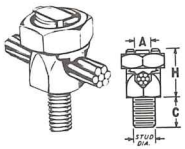


FIG. 1

Made from High Copper Content Hard Drawn Rod. Used for connecting one or two conductors to various sizes of male studs.

FIG. 3

FIG. 4

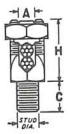


FIG. 2

For nut retainer (Fig. 3) add suffix "-R" to catalog number. If nut and lockwasher are required, (Fig. 4) add suffix "-SMH" to catalog number.

CATALOG NUMBER		Stud Size	A CONDUCTOR RANGE				Nut Hex.	C	H		Body Hex.
			Stranded		Solid				One Cable	Two Cable	
Fig. 1 1-Cable	Fig. 2 2-Cable		Min.	Max.	Min.	Max.					
SSS- 0	SCS- 0	1/4—20	12	9	12	8	1/2	1/2	5/8	3/4	3/8
SSS- 0A1	SCS- 0A1	1/4—20	12	9	12	8	1/2	1	5/8	3/4	3/8
SSS- 1	SCS- 1	1/4—20	10	7	10	6	11/16	1/2	7/8	1	1/2
SSS- 1A1	SCS- 1A1	1/4—20	10	7	10	6	11/16	1	7/8	1	1/2
SSS- 2	SCS- 2	5/16—18	10	4	10	3	3/4	5/8	15/16	1 3/32	9/16
SSS- 2A1	SCS- 2A1	5/16—18	10	4	10	3	3/4	1	15/16	1 3/32	9/16
SSS- 3	SCS- 3	3/8—16	10	3	10	2	13/16	5/8	1 1/16	1 3/32	5/8
SSS- 3A1	SCS- 3A1	3/8—16	10	3	10	2	13/16	1 1/8	1 1/16	1 3/32	5/8
SSS- 4	SCS- 4	3/8—16	8	2	10	1	7/8	5/8	1 1/16	1 3/32	11/16
SSS- 4A1	SCS- 4A1	3/8—16	8	2	10	1	7/8	1 1/8	1 1/16	1 3/32	11/16
SSS- 5	SCS- 5	1/2—13	2	1/0	2	2/0	1	3/4	1 5/16	1 11/16	3/4
SSS- 5A1	SCS- 5A1	1/2—13	2	1/0	2	2/0	1	1 1/4	1 5/16	1 11/16	3/4
SSS- 6	SCS- 6	1/2—13	2	2/0	2	3/0	1 1/8	3/4	1 7/16	1 3/4	7/8
SSS- 6A1	SCS- 6A1	1/2—13	2	2/0	2	3/0	1 1/8	1 1/4	1 7/16	1 7/8	7/8
SSS- 8	SCS- 8	5/8—11	1	4/0	1	4/0	1 3/8	1	1 11/16	2 1/4	1 1/8
SSS- 8A1	SCS- 8A1	5/8—11	1	4/0	1	4/0	1 3/8	1 1/2	1 11/16	2 1/4	1 1/8
SSS- 9	SCS- 9	5/8—11	1	350	–	–	1 1/2	1	2	2 11/16	1 3/4
SSS- 9A1	SCS- 9A1	5/8—11	1	350	–	–	1 1/2	1 1/2	2	2 11/16	1 1/4
SSS-10	SCS-10	3/4—10	3/0	500	–	–	1 13/16	1 3/8	2 5/16	3 3/16	1 1/2
SSS-10A1	SCS-10A1	3/4—10	3/0	500	–	–	1 13/16	1 3/4	2 5/16	3 3/16	1 1/2
SSS-11	SCS-11	3/4—10	350	750	–	–	2 1/4	1 3/8	2 1/2	3 5/16	2
SSS-11A1	SCS-11A1	3/4—10	350	750	–	–	2 1/4	1 7/8	2 1/2	3 7/16	2
SSS-12	SCS-12	1 — 8	500	1000	–	–	2 5/8	1 1/2	3	4	2 3/8
SSS-12A1	SCS-12A1	1 — 8	500	1000	–	–	2 5/8	2	3	4	2 3/8

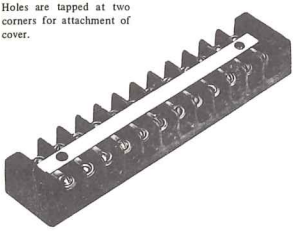
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Glass Reinforced Plastic

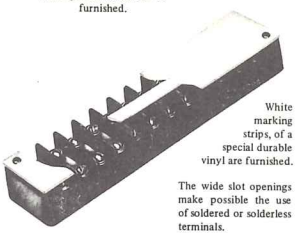
TERMINAL BLOCK

SERIES 6000 – WIDE SLOT

Holes are tapped at two corners for attachment of cover.

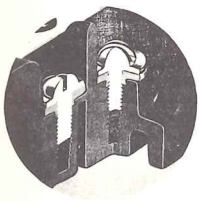


White plastic covers can be furnished.



White marking strips, of a special durable vinyl are furnished.

The wide slot openings make possible the use of soldered or solderless terminals.



Penn-Union Series 6000 Terminal Blocks have a wide slot opening to take wires with either a soldered or solderless terminal lug. They are molded of glass reinforced thermoplastic engineering resin. Jumper bars cannot be removed from Terminal Block.

Rating: 30 amperes and 750 volts When desired, the short time current ratings can be increased by the use of additional jumper bars, and longer washer-head screws.

Washer-head screws, No. 10–32, nickel plated.

Jumper bars are stamped of .062 inch hard rolled copper, plated to prevent corrosion.

Catalog Number	No. of Wires	DIMENSIONS				
		Width	Height	Length	Mounting Hole	
					C. to C.	Diameter
6002	2	2″	$1\frac{3}{16}$″	$2\frac{1}{2}$″	$1\frac{13}{16}$″	.225
6004	4	2″	$1\frac{3}{16}$″	$3\frac{13}{16}$″	$3\frac{1}{8}$″	.225
6006	6	2″	$1\frac{3}{16}$″	$5\frac{1}{8}$″	$4\frac{7}{16}$″	.225
6008	8	2″	$1\frac{3}{16}$″	$6\frac{7}{16}$″	$5\frac{3}{4}$″	.225
6012	12	2″	$1\frac{3}{16}$″	$9\frac{1}{16}$″	$8\frac{3}{8}$″	.225

Glass Reinforced Plastic

TERMINAL BLOCK

SERIES 6000-SC

Short Circuiting

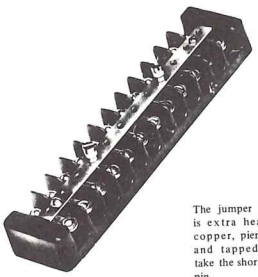
This series is similar to the standard 6000 Series Penn-Union Terminal Blocks, but in addition provides for short circuiting of two or more of the circuits passing through the block, whenever desired.

Instead of the plastic marking strip furnished with the standard 6000 Series Blocks, there is a shorting strip of hard rolled copper, which is pierced to take a shorting pin that makes contact with the jumper bar.

Catalog Number	No. of Wires	DIMENSIONS				
		Width	Height*	Length	Mounting Hole C. to C.	Mounting Hole Dia.
6002-SC	2	2″	1 3/16″	2 1/16″	1 13/16″	1/4″
6004-SC	4	2″	1 5/16″	3 15/16″	3 1/8″	1/4″
6006-SC	6	2″	1 3/16″	5 1/8″	4 7/16″	1/4″
6008-SC	8	2″	1 3/16″	6 7/16″	5 3/4″	1/4″
6012-SC	12	2″	1 3/16″	9 1/16″	8 3/8″	1/4″

*Screw heads project 1/2″.

Plastic marking strip can be supplied, –suffix Catalog Number with "S". Example: 6002-SCS.



The jumper bar is extra heavy copper, pierced and tapped to take the shorting pin.

Each Penn-Union 6000-SC Terminal Block has two shorting pins furnished as standard.

MULTIPLE CIRCUIT JUMPER BAR

TYPE MCJB

This jumper bar is usable on any Penn-Union 6000, 6000-SVS, 6000-SV and 6000-ST Series Terminal Block, to give any required branch circuits and tap-offs.

The bar is stamped from 1/16-inch rolled copper.

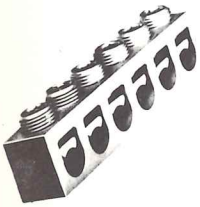
Catalog Number	No. of Wires
MCJB- 2	2
MCJB- 4	4
MCJB- 6	6
MCJB- 8	8
MCJB-12	12

Aluminum Underground

SERVICE ENTRANCE CONNECTORS

TYPE UGA

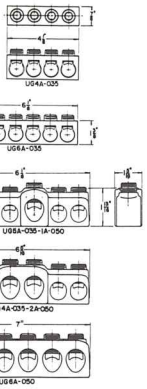
for Cable Range



Body fabricated from aluminum alloy, screws and saddles fabricated from 2024-T4 aluminum. The assembly is treated to provide an oxide-free surface. Range taking connections provide for connecting up to six aluminum cables. Each outlet is equipped with Allen set screws and saddles to provide even clamping forces on the conductors throughout the cable range.

Catalog Number	Cable Range
	Alum. or Cu.
UG4A-035 UG6A-035	6 Sol. – 350 MCM 6 Sol. – 350 MCM
UG6A-050	4/0 Str. – 500 MCM
UG4A-035-2A-050	4 of 6 Sol. – 350 MCM 2 of 4/0 Str. – 500 MCM
UG5A-035-1A-050	5 of 6 Sol. – 350 MCM 1 of 4/0 Str. – 500 MCM

Connectors can be electro-tinplated. For tin plating, add Suffix -"TN" to Catalog Number. Example: "UG4A-035-TN".



INSULATION COVER

TYPE UGRC

for Service Connectors

Polyethylene plastic cover supplied for an economical, dependable method of insulating service tap connections. Has excellent dielectric strength, weathering, abrasion resistance and temperature characteristics.

Catalog Number	For Service Conn. Cat. No.	No. of Cables	L	H
UGRC-1	UG6A-035	6	6¼	3¾
UGRC-2	UG4A-035	4	5¼	4
UGRC-3	UG6A-050	6	8¾	4

Aluminum Underground

DIRECT BURIAL RESIDENTIAL COMPRESSION TERMINAL KITS

TYPES DBTB, DBTBF and DBTH

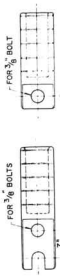
TYPE DBTB

The DBTB Kit consists of an aluminum compression lug, and button head cap screws for mounting hardware and a heat-shrink sleeve. The heat-shrink sleeve is lined with a mastic material to provide a positive seal.

TYPE DBTBF

The DBTBF Kit consists of an aluminum compression lug, and hex head cap screws for mounting hardware and a pre-lubricated force-fit rubber sleeve. The rubber sleeve has internal rings that provides a positive seal.

TERMINAL KITS FOR DBAT, DBATT, DBA-4L, DBA-5L, DBA-6L, DBA-7L, DBA-8L, DBA-4L2, DBA-5L2 & DBA-6L2



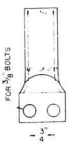
CATALOG NUMBER				CONDUCTOR		EET DIE INDEX **	DIE INDEX	TOOLS, DIESET CATALOG No. & NUMBER of CRIMPS	
ONE HOLE LUG		TWO HOLE LUG						MD 6 SERIES	Y35 SERIES
HEAT SHRINK	FORCE FIT	HEAT SHRINK	FORCE FIT	COPPER	ALUMINUM				
DBTB-C6	DBTBF-C6	DBTB-2-C6	DBTBF-2-C6	6 Str.-4Sol.	6 Str. - 4 Sol 6 Str. Comp.	8A	BG or 5/8 or 243	BG 3 or W243 2	UBG 1 or U243 1
DBTB-W2	DBTBF-W2	DBTB-2-W2	DBTBF-2-W2	2 Sol. - 4 Str.	2 Sol. - 4 Str. 4 Str. Comp.				
DBTB-C1	DBTBF-C1	DBTB-2-C1	DBTBF-2-C1	2 Str.-1/0 Sol.	2 Str.-1/0 Sol. 2 - 1 Str. Comp.				
DBTB-010A	DBTBF-010A	DBTB-2-010A	DBTBF-2-010A	1/0 Str.	1/0 Str. - 2/0 Sol 1/0 Str. Comp.				
DBTB-010	DBTBF-010	DBTB-2-010	DBTBF-2-010	1/0 Str.	1/0 Str. - 2/0 Sol. - 1/0 Str. Comp.	11A	249 or 840	W249 3 or WK840 5	U249 *2 or UK840 3
DBTB-013	DBTBF-013	DBTB-2-013	DBTBF-2-013	2/0 Str.	2/0 Str. - 3/0 Sol. 2/0 Str. Comp.				
DBTB-017	DBTBF-017	DBTB-2-017	DBTBF-2-017	3/0 Str.	3/0 Str. - 4/0 Sol. 3/0 Str. Comp.				
DBTB-025	DBTBF-025	DBTB-2-025	DBTBF-2-025	4/0 Str.	4/0 Str. - 250 Str. 4/0 Comp.-250 Comp.				
DBTB-030	DBTBF-030	DBTB-2-030	DBTBF-2-030	250	250 Str.-300 Str. 300 Comp.	13A	299 or 655 or 705	------ ------ ------	U31ART 2 or U655 3 or U705 2
DBTB-035	DBTBF-035	DBTB-2-035	DBTBF-2-035	-----	300 Str. - 350 Str. 350 Comp.				

*Overlap compressions.

** EEI Die Crimps with mechanical tools are to be spaced approx. 1/16" apart.
EEI Die Crimps with hydraulic tools can either be spaced approx. 1/16" apart or overlapped.

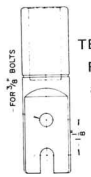
TERMINAL KITS FOR DBA-5L and DBA-7L (2 hole pads)

Type DBTBC has a copper compression Terminal — Type DBTB has an aluminum Compression Terminal.



CATALOG NUMBER		CONDUCTOR		DIE INDEX	TOOLS, DIESET, CATALOG No. & NUMBER OF CRIMPS		
HEAT SHRINK	FORCE FIT	COPPER	ALUMINUM		Y34A	Y35 SERIES	Y45 * SERIES
DBTBC-035-2	DBTBCF-035-2	350	-----	20	A34R 4	U34RT 4	*
DBTBC-050-2	DBTBCF-050-2	500	-----				
DBTB-035-2	DBTBF-035-2	350	300 - 350 350 Comp.	317, 705 1-1/8 – 1 or 1-1/8 – 2	------	U317 3 U705 2 UKI-18-IT 2 ------- 2	* * *
DBTB-050-2	DBTBF-050-2	----	500 500 Comp.				

*Use Y35 Die Sets with PT6515 U-Die adaptor. Same number of Crimps as Y35.



TERMINAL KITS FOR DBA-6H2 and DBA-8-H2

CATALOG NUMBER	CONDUCTOR		DIE INDEX	TOOLS, DIESET, CATALOG No. & No. of CRIMPS	
HEAT SHRINK	COPPER	ALUMINUM		Y35 SERIES	Y 45 * SERIES
DBTH-2-025	4/0 Str.-250	4/0 Str. - 250 250 Comp.	317, 705 1-1/8 – 1 or 1-1/8 – 2	U317 3 U705 2	* *
DBTH-2-035	300 - 350	300 – 350 350 Comp.		UKI-18-IT 2 ----- 2	
DBTH-2-050	500	500 500 Comp.	608 or 786	U608 4	*
DBTH-2-075	-----	700 – 750 750 Comp.		U786 3	*

*Use Y35 Diesets with PT-6515 U-Die adaptor. Same number of Crimps as Y-35.

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum Underground
TRANSFORMER TERMINAL

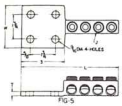
TYPE UGA

For Cable Range — Flat

Cast of high conductivity aluminum alloy. Range taking connectors provide for connecting up to six aluminum cables at the transformer terminals. Each outlet is equipped with an aluminum alloy saddle and Allen set screw to provide even clamping forces on the conductors throughout the cable range. The assembly is treated to provide an oxide-free surface.

Catalog Number	Cable Range Alum. or Cu.	Fig. No.	DIMENSIONS IN INCHES L	W	T	J
UG4A-035-2 UG6A-035-2 UG6A-035-4	6 Sol. – 350 MCM	1 2 3	7 9-1/4 9-1/4	1-1/2 1-1/2 3	3/8 9/16 5/16	9/16-18
UG4A-050-2 UG4A-050-4 UG6A-050-2 UG6A-050-4	4/0 Str. – 500 MCM	1 5 2 3	8-1/4 8-1/16 9-15/16 9-15/16	1-5/8 3 1-5/8 3	7/16 3/8 9/16 3/8	3/4-16
UG3A-075-4	500 – 800 MCM	4	8-1/2	4	3/4	7/8-14

Terminal can be electro-tin plated. For tin plating, add suffix-TN to Catalog Number.
Example: UG4A-035-2-TN.



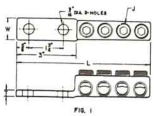


FIG. 1

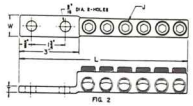


FIG. 2

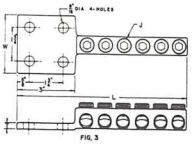


FIG. 3

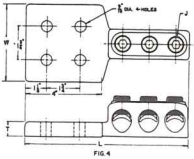


FIG. 4

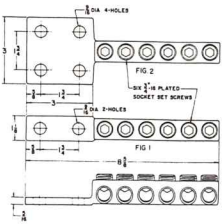
Bronze Underground
TRANSFORMER TERMINAL

TYPE UG & UG6

For Cable Range — Flat

Cast of high conductivity copper-alloy. Range taking connectors provide for connecting up to six copper cables at the transformer terminals. Each "UG" outlet is equipped with a cone point, steel cadmium plated Allen set screw. Each "UG6" is equipped with bronze screws and saddles.

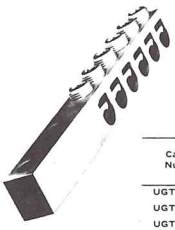
Catalog	Cable Range	Fig. No.	L	W	T
UG-025-2 UG-025-4	6 Sol. – 250 MCM 6 Sol. – 250 MCM	1 2	8-5/8 8-5/8	1-1/8 3	5/16 5/16
UG6-050-2 UG6-050-4	4/0 – 500 MCM 4/0 – 500 MCM	1 2	10-5/16 10-5/16	1-5/8 3	5/8 5/8



Aluminum Underground

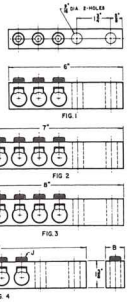
TRANSFORMER TERMINAL

TYPE UGTA



Body fabricated from 6061-T6 aluminum, screws and saddles fabricated from 2024-T4 aluminum. The assembly is treated to provide an oxide-free surface. Range taking connections provide for connecting up to six aluminum (or copper when tinplated) cables. Each outlet is equipped with Allen set screws and saddles to provide even clamping forces on the conductors throughout the cable range.

Catalog Number	CONDUCTOR RANGE	Fig. No.	DIMENSION IN INCHES B
UGT3A-025-2	6 Sol. – 250 MCM	1	7/8
UGT4A-025-2		2	
UGT5A-025-2		3	
UGT6A-025-2		4	
UGT3A-035-2	6 Sol. – 350 MCM	1	1
UGT4A-035-2		2	
UGT5A-035-2		3	
UGT6A-035-2		4	



Terminal can be electro-tin plated. For tin plating add Suffix "-TN" to Catalog Number. Example: "UGT3A-025-2-TN".

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum Underground
TRANSFORMER TERMINAL

TYPE UGSA

Body fabricated from 6061-T6 aluminum, screws and saddles fabricated from 2024-T4 aluminum. The assembly is treated to provide an oxide-free surface. Range taking connections provide for connecting up to eight aluminum (or copper when tinplated) cables. Each outlet is equipped with Allen set screws to provide even clamping forces on the conductors throughout the cable range.

FIG. 1

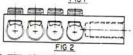


FIG. 2

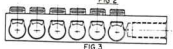


FIG. 3

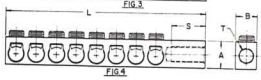
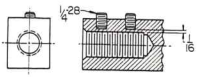


FIG. 4

Catalog Number	CONDUCTOR RANGE	Fig. No.	DIMENSIONS IN INCHES				
			A	B	L	T	S
UGS3A-0611-025	6 Sol. – 250 MCM	1	1-1/8	7/8	4-1/8	5/8-11	1-3/8
UGS4A-0611-025		2			4-15/16		
UGS6A-0611-025		3			6-9/16		
UGS8A-0611-025		4			8-3/16		
UGS3A-0611-035	6 Sol. – 350 MCM	1	1-3/4	7/8	4-13/16	5/8-11	1-3/8
UGS4A-0611-035		2			5-15/16		
UGS6A-0611-035		3			7-31/32		
UGS3A-1014-035	6 Sol. – 350 MCM	1	1-3/8	1-3/4	4-15/16	1-14	1-1/8
UGS4A-1014-035		2			5-15/16		
UGS6A-1014-035		3			7-31/32		

Terminal can be electro-tin plated. For tin plating, add Suffix "-TN" to Catalog Number. Example: "UGS3A-0611-025-TN"



Stud locking set screws may be ordered by adding suffix "–SS" to catalog number. Example: "UGS3A-0611-025-SS".

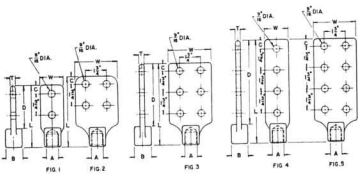
A quick disconnect adapter may be ordered by adding suffix "–LH" to catalog number. Example: "UGS3A-0611-025-LH" (See "LH" definition on Page W-13.)

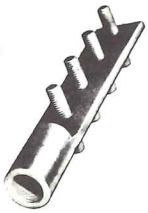
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Bronze Underground
TRANSFORMER TERMINAL

TYPE UTS

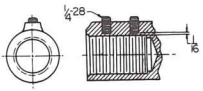
Cast of high conductivity copper-alloy and electro-tin plated. For use with aluminum or copper compression or bolted type lugs.





Can be supplied with studs bonded to Terminal. Suffix Catalog Number with "-S".

Catalog Number	Fig. No.	DIMENSIONS IN INCHES						
		A	B	C	D	L	T	W
UTS-0513-2	1	½-13	⅞	¾	3-½	5-1/16	5/16	1-⅜
UTS-0513-4	2			⅝	4-⅛	5-¾	¼	3-½
UTS-0513-4L	4			¾	7	8-9/16	5/16	1-⅜
UTS-0611-2	1	⅝-11	⅞	¾	3-½	5-1/16	5/16	1-⅜
UTS-0611-4	2			⅝	4-⅛	5-¾	¼	3-½
UTS-0611-4L	4			¾	7	8-9/16	5/16	1-⅜
UTS-1014-2	1	1–14	1-⅜	¾	3-9/16	5-⅛	11/32	1-15/16
UTS-1014-4	2			⅝	4-⅛	5-¾	⅜	3-½
UTS-1014-4L	4			¾	7-1/16	9-5/16	11/32	1-15/16
UTS-1014-6	3			⅝	5-⅛	6-11/16	⅜	3-½
UTS-1014-8	5			⅝	7-1/16	9-7/16	⅜	3-½



Stud locking set screws may be orderd by adding suffix "–SS" to Catalog Number.
Example without studs: "UTS-0513-4L-SS"
Example with studs: "UTS-0513-4L-S-SS"

TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

Aluminum Underground
TRANSFORMER TERMINAL

TYPE UTSA

Fabricated from 6061-T6 aluminum and treated to provide an oxide-free contact surface. For use with aluminum compression or bolted type lugs.

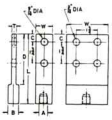


FIG. 1 FIG. 2

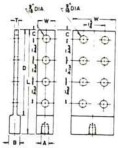
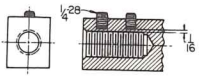


FIG. 3 FIG. 4

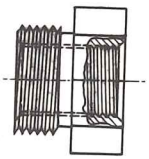
Can be supplied with studs bonded to Terminal. Suffix Catalog Number with "-S".

Catalog Number	Fig. No.	DIMENSIONS IN INCHES						
		A	B	C	D	L	T	W
UTSA-0513-2	1	1/2-13	7/8	3/4	4-1/8	5-3/4	5/16	1-3/8
UTSA-0513-4	2			5/8	4-1/8	5-3/4		3-1/2
UTSA-0513-4L	3			3/4	7	8-9/16		1-3/8
UTSA-0611-2	1	5/8-11	7/8	3/4	4-1/8	5-3/4	5/16	1-3/8
UTSA-0611-4	2			5/8	4-1/8	5-3/4		3-1/2
UTSA-0611-4L	3			3/4	7	8-9/16		1-3/8
UTSA-1014-2	1	1-14	1-3/8	3/4	4-1/8	5-3/4	3/8	2
UTSA-1014-4	2			5/8	4-1/8	5-3/4		3-1/2
UTSA-1014-4L	3			3/4	7	8-9/16		2
UTSA-1014-8	4			3/4	7	8-9/16		3-1/2

Terminals can be electro-tin plated. For tin plating, add Suffix "-TN" to Catalog Number. Example: "UTSA-0513-2-TN".

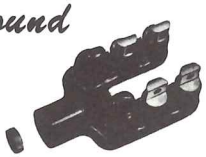


Stud locking set screws may be ordered by adding Suffix "-SS" to Catalog Number. Example without studs: UTSA-0513-2-SS" Example with studs "UTSA-0513-2-S-SS".



A quick disconnect adapter may be ordered by adding Suffix "-LH" to Catalog Number. Example: "UTSA-0513-2-LH" (See "LH" definition on Page W-13).

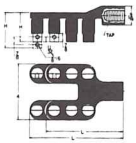
Aluminum Underground

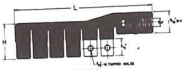


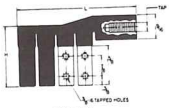
TRANSFORMER SECONDARY TERMINAL
TYPES DBAT & DBATT

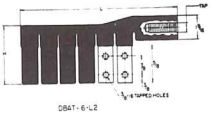
Type DBAT & DBATT is an economical insulated aluminum transformer connector for a range of copper or aluminum conductors, suitable for use in enclosures. Contact pads allow new services to be added as needed without disturbing previous installations. Tapping is eliminated by use of heat-shrinkable or force-fit Nordel* rubber insulating sleeves.

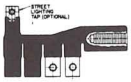
Upper DBAT & DBATT body is PVC insulated; each leg is independently capped with a water-tight cover which may be removed for the addition of compression terminal and heat-shrinkable or force-fit insulating sleeves.

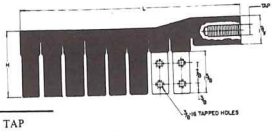












NOTE: For street lighting tap add suffix "S" to Catalog Number. Example: "DBAT-4-S."

CAT. NO.	L	H	TAP
DBAT-4 DBAT-4-1 DBAT-4-L2 DBAT-4-1-L.2	7-3/4 7-3/4 7-3/4 7-3/4	2-11/16 2-11/16 3-9/16 3-9/16	5/8"-11 1"-14 5/8"-11 1"-14
DBAT-6 DBAT-6-1 DBAT-6-L2 DBAT-6-1-L2	10-5/8 10-5/8 10-5/8 10-5/8	2-11/16 2-11/16 3-9/16 3-9/16	5/8"-11 1"-14 5/8"-11 1"-14
DBATT-6 DBATT-6-1	6-1/4 6-1/4	2-11/16 2-11/16	5/8"-11 1"-14
DBAT-8 DBAT-8-1 DBAT-8-L2 DBAT-8-1-L2	13-5/8 13-5/8 13-5/8 13-5/8	2-11/16 2-11/16 3-9/16 3-9/16	5/8"-11 1"-14 5/8"-11 1"-14
DBATT-8 DBATT-8-1	7-3/4 7-3/4	2-11/16 2-11/16	5/8"-11 1"-14

INSULATING SLEEVE FOR STREET LIGHTING TAP

TYPE DBF Force-Fit Nordel* rubber sleeve

CATALOG NO.	Wire Size	Wire Insulation Dia.
DBF-C4-S	#8 Sol. – #4 Str.	.18 – .44

TYPE DBS Heat-Shrinkable sleeve

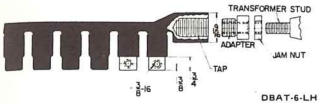
CATALOG NO.	Wire Size	Wire Insulation Dia.
DBS-12-3	#8 Sol. – #4 Str.	.26 – .44

* DuPont Trademark

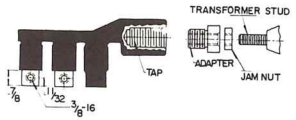
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

QUICK DISCONNECT TRANSFORMER SECONDARY TERMINATION
TYPES DBAT-LH & DBATT-LH

The "-LH" Quick Disconnect Adapter feature may be added to any of the DBAT or DBATT Lines. This disconnect allows terminal removal from transformer for change out, without alterations to installed cable connections.



DBAT-6-LH

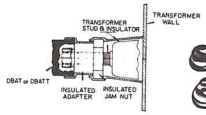


DBATT-6-LH

NOTE: THE QUICK DISCONNECT MAY BE ORDERED BY ADDING SUFFIX -LH TO CATALOG NUMBER. EXAMPLE: DBAT-6-LH

TOTAL DEAD FRONT TRANSFORMER SECONDARY TERMINATION
TYPES DBAT-LH-DF & DBATT-LH-DF WITH "LH" QUICK DISCONNECT & -"DF" DEAD FRONT FEATURE

The "-DF" Dead Front Application allows no bare connector parts or connector. All parts are insulated from the cable connections to the transformer wall. The "-LH" Quick Disconnect adapter & Jam Nut are PVC insulated forming the deadfront from the connector to the transformer wall.



NOTE: THE DEAD FRONT FEATURE WITHOUT THE QUICK DISCONNECT FEATURE MAY BE ORDERED BY ADDING SUFFIX -DF TO CATALOG NUMBER.
EXAMPLE: DBAT-6-DF.

FOR "LH" QUICK DISCONNECT AND DEAD FRONT FEATURE ADD SUFFIX "-LH" AND "-DF" TO CATALOG NUMBER.
EXAMPLE: DBAT-6-LH-DF.

Aluminum Underground

COMPRESSION STACKING LUGS

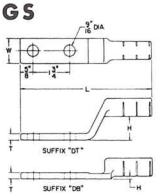
TYPES KSSL, KVSL and KWSL

These heavy duty compression lugs can be used for take off, from a pad-mounted Transformer, secondary or used for Service Entrance.

These lugs can be crimped with existing hydraulic tools.

Entire connector is etched and no-oxide coated. Barrel is prefilled with "Cual-Aid" inhibiter and capped.

Suffix "DT" will stack on top of suffix "DB" of same or smaller cable size.



CATALOG NUMBER	CONDUCTOR SIZE Alum. or Cu. Str.	No. of Crimps and Die Size	DIMENSIONS IN INCHES L	T	W	H
KSSL-2DT KSSL-2DB	#2	4 crimps–.840" or Index 249 3 crimps–Index 298	6-1/4	5/16	1-3/16	13/16 1/8
KSSL-1/0DT KSSL-1/0DB	1/0					13/16 1/8
KSSL-2/0DT KSSL-2/0DB	2/0					13/16 1/8
KSSL-3/0DT KSSL-3/0DB	3/0					13/16 1/8
KSSL-4/0DT KSSL-4/0DB	4/0					13/16 1/8
KUSL-026DT KUSL-026DB	250-266.8MCM	4 crimps - 1-1/8-2 or Index 316 or 705	7-1/4	1/2	1-5/8	7/8 1/8
KUSL-035DT KUSL-035DB	300-350MCM					7/8 1/8
KVSL-050DT KVSL-050DB	477-500 MCM	5 crimps–1-5/16" Index 317 or Index 300	7-3/4	7/16	1-5/8	1-3/16 1/8
KVSL-060DT KVSL-060DB	556.5-600MCM					1-3/16 1/8
KWSL-079DT KWSL-079DB	750-795MCM	6 crimps–1-1/2" or Index 318 3 crimps–Index 301	8-1/4	5/8	1-5/8	1-3/8 1/8
KWSL-100DT KWSL-100DB	1000					1-3/8 1/8

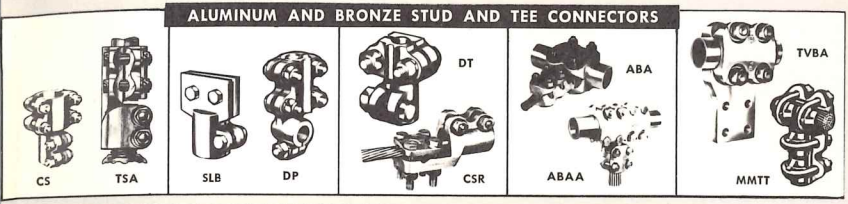
TELEDYNE PENN-UNION ELECTRIC
EDINBORO, PENNSYLVANIA 16412

SELECTOR GUIDE OF OTHER CONNECTORS FOR UTILITY AND INDUSTRIAL APPLICATIONS

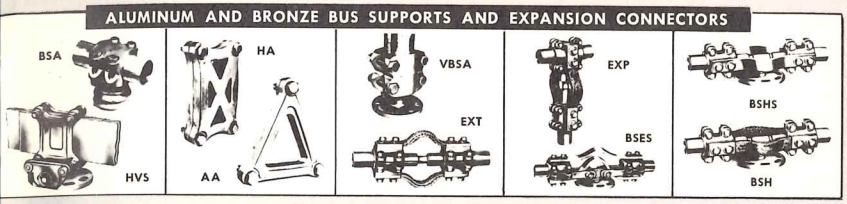
BOLTED ALUMINUM AND BRONZE LUGS

BRONZE GROUND CONNECTORS

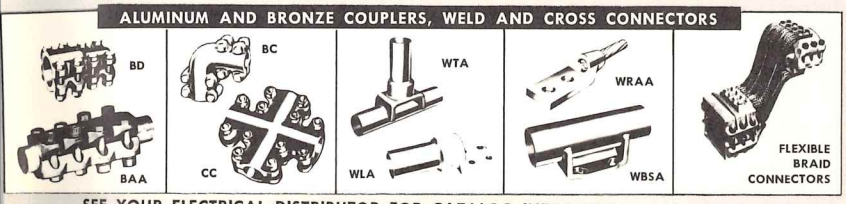
ALUMINUM AND BRONZE STUD AND TEE CONNECTORS



ALUMINUM AND BRONZE BUS SUPPORTS AND EXPANSION CONNECTORS



ALUMINUM AND BRONZE COUPLERS, WELD AND CROSS CONNECTORS



SEE YOUR ELECTRICAL DISTRIBUTOR FOR CATALOG INFORMATION ON ABOVE.

TELEDYNE
PENN-UNION ELECTRIC

WATERFORD STREET P.O. BOX 723
EDINBORO, PENNSYLVANIA 16412
814 734-1631